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NATIONAL MANPOWER INVENTORY FINAL REPORT;

Technical Documentation for
Software for the Model.

Aline Quester
Craig Goodwyn
Janice Olson
Peter Perla

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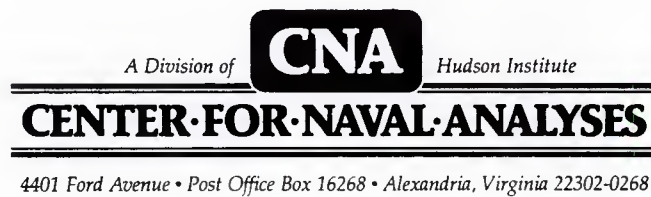
4401 Ford Avenue • Post Office Box 16268 • Alexandria, Virginia 22302-0268 • (703) 824-2000

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Aline Quester
Craig Goodwyn
Janice Olson
Peter Perla

Naval Planning, Manpower, and Logistics Division



ABSTRACT

This report on the National Manpower Inventory (NMI) is in three volumes. Volume I describes (1) the major inputs to the NMI and adjustments of the data made to meet NMI goals more directly; (2) the operational NMI model that was developed and its potential uses; and (3) some limitations inherent in the NMI data. Volume II provides technical documentation for the report, and Volume III is a user's guide to the software for the model.

TABLE OF CONTENTS

	<u>Page</u>
Introduction.....	1
Data Dictionary	1
Data File Descriptions.....	3
Data Files.....	5
Census Tabulations	5
File 1: Basic Census Tabulations	5
Reserve Probabilities.....	6
Files 2 and 3: Reserve Probabilities for 1980 and 1983	6
Update Data	6
File 4: Occupational Update Data for 1983	6
Crosswalk.....	7
File 5: OASD/MI&L Crosswalk.....	7
Crosswalk-Compatible Counts	8
Files 6 and 7: Crosswalk-Compatible Counts of Active-Duty Military Personnel, 1980-1984.....	8
Mini Data Files.....	8
Files 8 Through 10: Mini Data Files	8
Parameter Files.....	9
Files 11 Through 16: Parameter Files Associated With Data Files 1 Through 10	9
Computer Programs.....	10
Inventory Modification	11
File 17: Inventory Modification Module	11
Inventory Reporting.....	12
File 18: Inventory Reporting Module.....	12
Bottlenecks.....	13
File 19: Bottleneck Module.....	13
Counts of Military Personnel.....	15
File 20: Counts of Active-Duty, Selected Reservists, and Recent Veterans by Military Job	15

TABLE OF CONTENTS (Continued)

	<u>Page</u>
Appendix A: Census Industry Codes	A-1 – A-8
Appendix B: Census Occupation Codes	B-1 – B-8
Appendix C: Department of Defense Occupation Codes	C-1 – C-7
Appendix D: FIPS State Codes	D-1
Appendix E: Military Occupational Specialty Codes	E-1 – E-40
Appendix F: Source Listing of Main Computer Program for Inventory Modification Module	F-1 – F-8
Appendix G: Source Listing of Main Computer Program for Reporting Module	G-1 – G-9
Appendix H: Source Listing of Main Computer Program for Allocation Module	H-1 – H-15

INTRODUCTION

The National Manpower Inventory (NMI) model developed by the Center for Naval Analyses (CNA) is described in considerable detail in *Vol. I: National Manpower Inventory Final Report* (CNA RC-53301). In addition to describing how the model works, the report provides samples of the NMI model output. As requested by the NMI Working Group,¹ the computer software necessary to run the NMI is being delivered on tape. This volume provides the technical documentation for these computer files; it should be read in conjunction with RC-53301.

This User Guide is organized into four sections. The first section is the data dictionary. The second section describes the data files used by the NMI model as well as the parameter files (a parameter file is associated with each of the ten data files.) The third section describes the computer programs (the Inventory Modification Module, the Inventory Reporting Module, and the Bottleneck Module) that access the data files and build the inventory. Each of these computer programs requires associated parameter files, which also are described. The final section describes a file that contains counts of active-duty, reserve, and recent veteran individuals by military occupational specialty (MOS).

DATA DICTIONARY

The data dictionary for the NMI model is as follows:

<u>Variable</u>	<u>Range</u>	<u>Description</u>	
AGE GROUP	1 - 11	1: 16-19 yrs	7: 45-49 yrs
		2: 20-24 yrs	8: 50-54 yrs
		3: 25-29 yrs	9: 55-59 yrs
		4: 30-34 yrs	10: 60-64 yrs
		5: 35-39 yrs	11: 65 + yrs
		6: 40-44 yrs	

1. The NMI Working Group included Dr. Curtis Gilroy, Chairman, Army Research Institute; Dr. Jules Borack, Navy Manpower Research and Development Center; Dr. Larry Looper, Air Force Human Resources Laboratory; and Dr. W.S. Sellman, Office of the Secretary of Defense. Additionally, Dr. David Boesal and Dr. Zahava Doering from the Defense Manpower Data Center (DMDC) participated in the NMI discussions.

BRANCH	1 – 5	1: Army 2: Navy 3: Air Force 4: Marine Corps 5: Coast Guard
BRANCH THRU MOS	N/A	String of variables to be considered as one variable: (BRANCH, COMMUNITY PAYGRADE, DoD OCC CODE, MOS)
CENSUS INDUSTRY	010 – 992	See appendix A
CENSUS OCCUPATION	003 – 909	See appendix B
COMMUNITY	1 – 8	1: Enlisted 2: Commissioned Officer 3: Warrant Officer 4: Limited Duty Officer 5: Officer/Limited Duty Officer 6: Officer/Warrant Officer 7: Limited Duty Officer/Warrant Officer 8: Officer/Limited Duty Officer/Warrant Officer
DoD OCC CODE	010 – 950	See appendix C
EDUCATION (highest completion level)	1 – 6	1: Not high school graduate 2: High school graduate 3: 2 years of college 4: 4 years of college 5: 6 years of college 6: 8 years of college
FIPS STATE CODE	1 – 56	See appendix D
GOVERNMENT WORKER	0 – 3	0: Not employed in government 1: Local government 2: State government 3: Federal government
LABOR FORCE STATUS	1 – 3	1: Worked in 1979, early 1980, and/or week of Census in 1980 2: Worked in last 5 years but not in Census Week or 1979 3: Did not work between 1975 and the Census Week of 1980 (not restricted to people looking for work)

MOS	N/A	Military Occupational Specialty Codes See Appendix E
PAYGRADE	1 - 9	The paygrade ranges are 1-9 for officers and 1-9 for enlisted personnel. To identify an E-4, then, one would look for a "4" in the Paygrade Field and a "1" in the Community Field. ¹
RACE	1 - 3	1: White 2: Black 3: Other
RECENT VET	1 - 2	1: Not recent vet 2: Recent vet (left since May 1975)
SEX	1 - 2	1: Male 2: Female
VETERAN	1 - 2	1: Not vet 2: Vet

DATA FILE DESCRIPTIONS

The tape specifications are given below:

Blocksize 4800
Density 6250 bpi
9 track
ASCII

Figure 1 visually describes the model's operation for the report-generating feature.

1. Since the rank 0-10 does not occur in the crosswalk, and since the military is unlikely to directly recruit the rank of 0-10 from the civilian sector, the rank of 0-10 was omitted.

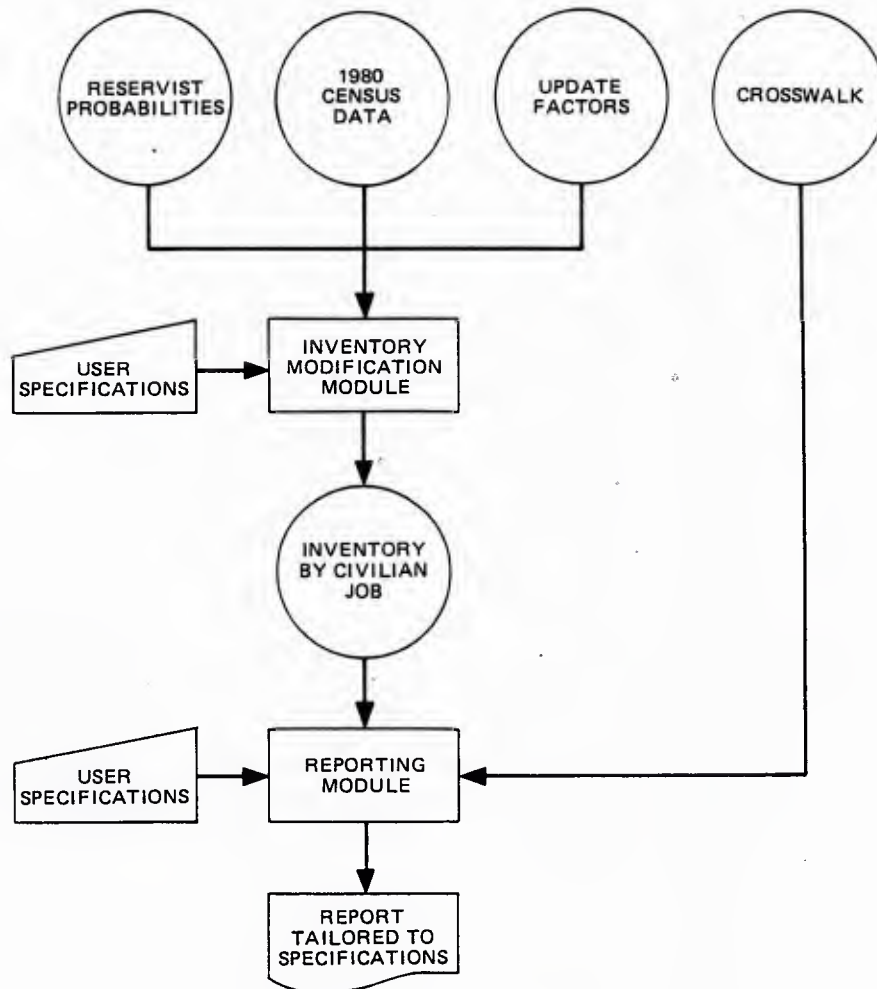


FIG. 1: THE NMI MODEL

DATA FILES

Census Tabulations

File 1: Basic Census Tabulations

File 1, created from the 1980 Census (Public Use, 5-percent sample), contains tabulations of all nondisabled persons who are 16 years old and over (active-duty military personnel are excluded). The tabulations are by state of residence, age, sex, education, race, veteran and recent veteran status, employment status, occupation, industry, and government worker. Each record is thus a cell count in a matrix defined by values of these 11 variables.¹ Note: To obtain population counts, this 5-percent random sample will need to be multiplied by 20.

<u>Format</u>			
<u>Field</u>	<u>Position</u>	<u>Size</u>	<u>Type^a</u>
STATE FIPS CODE	1	2	N
AGE GROUP	3	2	N
SEX	5	1	N
EDUCATION	6	1	N
RACE	7	1	N
VETERAN	8	1	N
RECENT VET	9	1	N
LABOR FORCE STATUS	10	1	N
CENSUS OCCUPATION	11	3	N
CENSUS INDUSTRY	14	3	N
GOVERNMENT WORKER	17	1	N
Incumbent count for category	18	5	N

a. N = numeric, AN = alphanumeric

1. Files 8 through 10 are subsets of this basic Census tabulation.

Reserve Probabilities

Files 2 and 3: Reserve Probabilities for 1980 and 1983

Files 2 and 3 contain data for 1980 and for 1983, respectively. Each record contains a category for state of residence, age, education, race, sex, and veteran status. (Note: These categories aggregate the data over the categories of occupation, industry, employment status, and government worker provided in File 1.) For each record, there is the probability that individuals with the particular characteristics (state, age, sex, education, race, and veteran category) are not members of the Selected Reserve. It was necessary to construct probabilities for Selected Reservists because the 1980 Census does not identify Selected Reservists.

Format			
<u>Field</u>	<u>Position</u>	<u>Size</u>	<u>Type</u>
STATE FIPS CODE	1	2	N
AGE GROUP	3	2	N
SEX	5	1	N
EDUCATION	6	1	N
RACE	7	1	N
VETERAN	8	1	N
Probabilities not in Selected Reserve	9	8	N

Update Data

File 4: Occupational Update Data for 1983

File 4 contains 1983 gender-specific update factors for detailed Census occupations described in File 1.

Format			
<u>Field</u>	<u>Position</u>	<u>Size</u>	<u>Type</u>
SEX	1	1	N
Update factor	4	4	N
CENSUS OCCUPATION	10	3	N
Census occupation title	13	66	AN

Note: Optimal data were not available for calculating these factors. Users are urged to review the discussion of these data limitations in Volume I: National Manpower Inventory Final Report (RC-53301) when using this file.

Crosswalk

File 5: OASD/MI&L Crosswalk

The data set in File 5 links military occupations to civilian occupations. Constructed by merging Office of the Assistant Secretary of Defense/ Manpower, Installations, and Logistics (OASD/MI&L) and National Occupational Information Coordinating Committee (NOICC) crosswalks, it has no incumbent counts but merely provides linkages from one occupational taxonomy to another. If a military job matches to more than one Census occupation, this crosswalk file will have a separate entry for each match. Each record is a pay grade-MOS specific match to a unique Census occupation.

<u>Format</u>			
<u>Field</u>	<u>Position</u>	<u>Size</u>	<u>Type</u>
BRANCH	1	1	N
COMMUNITY	3	1	N
PAY GRADE	5	1	N
DoD OCC CODE	7	3	AN
MOS	11	8	AN
Unedited DoD Code ¹	19	3	AN
Unedited MOS ¹	23	8	AN
MIL TITLE	31	54	AN
SEX	85	1	N
CENSUS OCCUPATION	86	3	N

1. These codes are the actual codes from the OASD/MI&L crosswalk. It was necessary to edit these codes for Army officers to match the codes for active-duty personnel received from the Defense Manpower Data Center (DMDC). The DoD OCC CODE and MOS fields are the edited codes that are used by the NMI software.

Crosswalk-Compatible Counts

Files 6 and 7: Crosswalk-Compatible Counts of Active-Duty Military Personnel, 1980 and 1984

Files 6 and 7 contain counts of active-duty personnel for 1980 and 1984, respectively. These files are designed to be used by the allocation module as descriptions of military demands. Each record is defined by the service branch, community, MOS, and pay grade.

<u>Format</u>			
<u>Field</u>	<u>Position</u>	<u>Size</u>	<u>Type</u>
BRANCH	1	1	N
COMMUNITY	3	1	N
PAYGRADE	5	1	N
DoD OCC CODE	7	3	AN
MOS	11	8	AN
Unedited MOS ¹	24	8	AN
Incumbent Count for category	32	6	AN

1. These are the codes from DMDC data for active-duty personnel. It was necessary to edit these codes for Navy enlisted personnel to match the OASD/MI&L crosswalk. This editing involved comparisons of both Navy rating and Navy Enlisted Classification (NEC) codes. The NMI software uses the fields DoD OCC CODE and MOS.

Mini Data Files

Files 8 through 10: Mini Data Files

These files each contain an inventory of civilians. They are smaller data sets than File 1, however, because they restrict the counts to a subset of cases and because they contain fewer variables. As smaller data sets, they can be used more easily as test cases for "bottlenecks" (File 17) or for overall inventory queries (File 16). All three data sets are restricted to nondisabled civilians who worked in either 1979, early 1980, or in the Census Week of 1980 (Labor Force Status = 1) and who are under 40 years of age. File 8 contains all such cases, while Selected Reservists are removed from File 9; both Selected Reservists and Recent Veterans are excluded from File 10.

The variables in these files are state of residence, age, gender, education, and census occupation. For each state/age/gender/education/occupation category, the record describes an incumbent count. With these aggregations and limitations, the user has 6 educational categories, 51 home residence categories, 2 sex categories, and 5 age categories from which to specify the inventory. There are potentially 1,539,180 cells of data (6 education x 51 state x 2 gender x 5 age x 503 occupation) with each data record containing a count of the subset of individuals within the category.¹

<u>Format</u>				
<u>Field</u>	<u>Position</u>	<u>Size</u>	<u>Type</u>	
STATE FIPS CODE	1	2	N	
AGE GROUP	3	2	N	
SEX	5	1	N	
EDUCATION	6	1	N	
CENSUS OCCUPATION	7	3	N	
Incumbent Count for Category	10	14	N	

Parameter Files

Files 11 through 16: Parameter Files Associated With Data Files 1 through 10

Each data file has an associated parameter file that describes it. For data files describing counts for different years (or for files with identical structures, Files 8-10), a single parameter file applies. Because these parameter files all follow the same pattern, only the parameter file for the Basic Census Tabulations (File 1) is detailed below (Parameter File 11).

The first entry in the parameter file indicates the number of variables contained in the associated data file. Thus the entry "11" means there are 11 variables in the Basic Census Tabulations (File 1). The parameter file then

1. If the cell had no incumbents, it was omitted from the file. These files contain population counts (for example, the 5-percent random sample was multiplied by a factor of 20).

lists the variable name for the first variable (here it is FIPS STATE CODE). Underneath the variable name are four numbers—they are the variable position, the variable size, and the minimum and maximum values of the variable. The final entry in the parameter file is the position of the incumbent count variable (here in position 18) and the size of the incumbent count variable (here 5 digits). In Files 2, 3, and 4, the count variable is the probability (File 2 and 3) or the update factor (File 4). File 5, the Crosswalk, has no count variable in the parameter file since there are no incumbent counts in this file.

Parameter File 11

11			
FIPS STATE CODE			
1	2	1	57
AGE GROUP			
3	2	1	11
SEX			
5	1	1	2
EDUCATION			
6	1	1	6
RACE			
7	1	1	3
VETERAN			
8	1	1	2
RECENT VET			
9	1	1	2
LABOR FORCE STATUS			
10	1	1	3
CENSUS OCCUPATION			
11	3	3	909
CENSUS INDUSTRY			
14	3	10	992
GOVERNMENT WORKER			
17	1	0	3
18	5		

COMPUTER PROGRAMS

Each module includes an interactive program (the front end) and a main program. The interactive program combines user specifications with descriptions of the input data files, creating a single parameter file to control

the main program. The required file assignments are listed with the descriptions of each module.

Inventory Modification

File 17: Inventory Modification Module

File 17 contains a computer program (see appendix F) that can modify the basic Census tabulations (Files 1, 8, 9, or 10) in one of three basic ways: to select only individuals who fit a defined set of characteristics; to aggregate the data across selected characteristics; or to update the population counts. As an example of the first modification, the user might wish to count only males under the age of 35. For the second type of modification, if the user is not concerned with the racial or geographic characteristics of the inventory, he could specify these two dimensions of the table be ignored. Finally, the Inventory Modification program provides, as a third option, an update capacity. The user, for example, might want to make the inventory current to 1983 (using File 4) and then to additionally exclude Reservists (using 1983 Reservist probability data on File 3). The update capacity, however, will not be limited to the updates CNA provides. The program will be able to implement any user-provided updates for any of the dimensions of File 1.

File Requirements

INPARM	Parameter file describing input to civilian inventory file.
OUTPARM	Parameter file created by front end describing the new civilian inventory file.
FCTRPARM	Parameter file describing file of update factors (optional).
TRANPARM	Parameter file created by front end to control main program.
DISPFILE	Terminal output.
COMMMFILE	Terminal input.
INFILE	Inventory file to be modified.
OUTFILE	Modified inventory file.
FCTRFILE	File of update factors (optional).

Inventory Reporting

File 18: Inventory Reporting Module

This program (see appendix G) accesses the desired civilian base for the inventory. This base can be the output generated by Files 1, 8, 9, or 10 (and, perhaps after modifications are made, by File 17). The program accesses File 5 for the crosswalk. The user then defines the output format.

This program will produce the available inventory for each military job (MOS and pay grade defined) by whatever characteristics the user desires. After computing the inventory of civilians, the user can compare these counts with the corresponding Active Force Strengths, Reserve Force Strengths, and Recent Veteran Strengths found in File 20.

It should be noted that inventories generated by this reporting module overlap; civilians will not be uniquely allocated to one military job. Instead, for example, a civilian electronic technician may be included in the pool for numerous military jobs.

File Requirements

XPARAM	Parameter file describing crosswalk file.
INPARAM	Parameter file describing civilian inventory file.
DISPFILE	Terminal output.
COMMMFILE	Terminal input.
TRANPARAM	Parameter file created by front end to control main program.
INFILE	Civilian inventory file.
XFILE	Crosswalk file.

Bottlenecks

File 19: Bottleneck Module

This module, integrated with a military "demand" file (File 6, File 7, or a user-supplied list of military requirements), efficiently allocates the user-defined civilian pool across the spectrum of military jobs. The program (see appendix H) allocates an individual to a military job by maximizing the minimum ratio of allocated civilians to military requirements. The user can input a requirements vector (defined by the MOS/Pay-grade groupings in the OASD/MI&L crosswalk) or can use the current Active Force, MOS/Pay-grade allocation (found in File 4) as a proxy for the requirement mix. The module will report the supply/demand ratios in ascending order. Figure 2 outlines the procedures.

File Requirement

DEMPARM	Parameter file describing military demands file.
XPARM	Parameter file describing crosswalk file.
SUPPARM	Parameter file describing civilian inventory file.
DISPFILE	Terminal output.
COMMMFILE	Terminal input.
TRANPARM	Parameter file created by front end to control main program.
DEMFILE	Military demands file.
SUPFILE	Civilian inventory file.
XFILE	Crosswalk file.
REPFILE	Report file, includes supply-demand ratio for each military job.

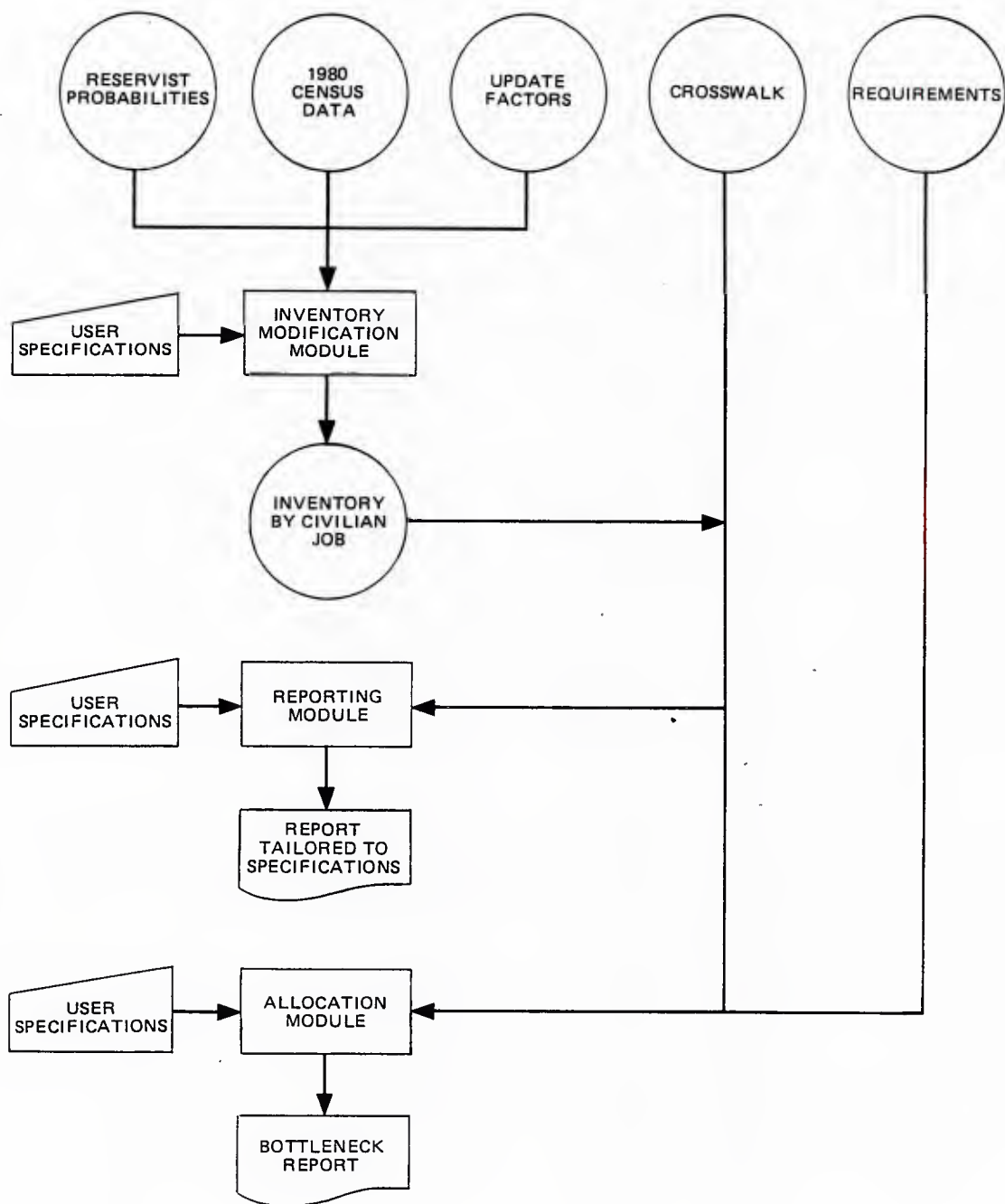


FIG. 2: THE NMI MODEL WITH BOTTLENECK REPORT

COUNTS OF MILITARY PERSONNEL

File 20: Counts of Active-Duty, Selected Reservists, and Recent Veterans by Military Job

File 20 contains personnel counts by the military job classifications (combinations of MOS and pay grade) defined in the OASD/MI&L crosswalk. On each record, there are two counts of active-duty personnel (for 1980 and 1984), four counts of Selected Reservists (for 1980 and 1983, by gender) and a count of "recent" veterans (by gender). The latter count roughly corresponds to the Decennial Census's definition of "Recent" Veterans (the 6 years of recent-veteran counts have been multiplied by 5/6 to make it similar to the 5 years of Census data.)

Because File 20 is sorted by BRANCH, COMMUNITY, and MOS, it should be particularly useful for obtaining counts, within an MOS, of actives, reservists, and recent veterans. The user should note, however, that the information on reservists' MOSs for Army Commissioned Officers is, in some cases, more complete than that available for active-duty personnel. Thus, there are some listings in which the MOS is aggregated for the actives (with a resultant count of actives but no count for reservists), but the MOS is disaggregated for the reservists (with a count of reservists but no count for the actives).

In addition, DMDC has not yet been able to provide complete MOS counts for veterans. The current data (4/10/85) are missing about 4 to 5 percent of the enlisted personnel, about 2 percent of the officers and, additionally, have invalid codes for all Army Commissioned Officers. It is hoped that this situation will be corrected soon. In short, this data file contains the MOS codes available from DMDC for the three categories of personnel (actives, reservists, recent veterans). Thus, when using this file, it is important to be familiar with each Service's coding procedures for each of its communities.¹

1. Many of the MOSs in this file contain very small numbers of incumbents. Many of these MOSs may, in fact, be data anomalies. It was not possible, however, within the time constraints of this project, to investigate these anomalies. The file, however, is sorted by number of observations (incumbent count for all categories greater than 10 individuals, less than 10 individuals). After this sort, the file is sorted by branch, community, and pay grade. Thus the potential anomalies appear at the latter part of the file.

<u>Format</u>			
<u>Field</u>	<u>Position</u>	<u>Size</u>	<u>Type</u>
BRANCH	2	1	N
COMMUNITY	4	1	N
MOS	6	8	AN
1980 Active count	15	10	N
1984 Active count	26	10	N
1980 Male Reserve count	37	10	N
1983 Male Reserve count	48	10	N
1980 Female Reserve count	59	10	N
1983 Female Reserve count	70	10	N
Male Veteran (EAOS 1977-82)	81	10	N
Female Veteran (EAOS 1977-82)	92	10	N

APPENDIX A
CENSUS INDUSTRY CODES

APPENDIX A

CENSUS INDUSTRY CODES

This appendix provides Industry Codes used in the 1980 Census.¹

1. SOURCE: U.S. Department of Commerce, Bureau of the Census, 1980 Census of Population and Housing, *Technical Documentation*, 1983.

Industry Codes

(Numbers in parentheses are the 1972 SIC code equivalents; see Executive Office of the President, Office of Management and Budget, Standard Industrial Classification Manual, 1972 and the 1977 Supplement. "N.E.C." means not elsewhere classified.)

<u>Code</u>	<u>Industry</u>
-------------	-----------------

AGRICULTURE, FORESTRY, AND FISHERIES

010	Agricultural production, crops (01)
011	Agricultural production, livestock (02)
020	Agricultural services, except horticultural (07, except 078)
021	Horticultural services (078)
030	Forestry (08)
031	Fishing, hunting, and trapping (09)

MINING

040	Metal mining (10)
041	Coal mining (11, 12)
042	Crude petroleum and natural gas extraction (13)
050	Nonmetallic mining and quarrying, except fuel (14)

060	CONSTRUCTION (15, 16, 17)
-----	---------------------------

MANUFACTURING Nondurable goods

	Food and kindred products
100	Meat products (201)
101	Dairy products (202)
102	Canned and preserved fruits and vegetables (203)
110	Grain mill products (204)
111	Bakery products (205)
112	Sugar and confectionery products (206)
120	Beverage industries (208)
121	Miscellaneous food preparations and kindred products (207, 209)
122	Not specified food industries
130	Tobacco manufactures (21)
	Textile mill products
132	Knitting mills (225)
140	Dyeing and finishing textiles, except wool and knit goods (226)
141	Floor coverings, except hard surface (227)
142	Yarn, thread, and fabric mills (228, 221-224)
150	Miscellaneous textile mill products (229)

Industry Codes (continued)

Code Industry

MANUFACTURING-Continued
Nondurable goods-Continued

Apparel and other finished textile products
151 Apparel and accessories, except knit (231-238)
152 Miscellaneous fabricated textile products (239)
Paper and allied products
160 Pulp, paper, and paperboard mills (261-263, 266)
161 Miscellaneous paper and pulp products (264)
162 Paperboard containers and boxes (265)
Printing, publishing, and allied industries
171 Newspaper publishing and printing (271)
172 Printing, publishing, and allied industries, except newspapers
 (272-279)
Chemicals and allied products
180 Plastics, synthetics, and resins (282)
181 Drugs (283)
182 Soaps and cosmetics (284)
190 Paints, varnishes, and related products (285)
191 Agricultural chemicals (287)
192 Industrial and miscellaneous chemicals (281, 286, 289)
Petroleum and coal products
200 Petroleum refining (291)
201 Miscellaneous petroleum and coal products (295, 299)
Rubber and miscellaneous plastics products
210 Tires and inner tubes (301)
211 Other rubber products, and plastics footwear and belting
 (302-304, 306)
212 Miscellaneous plastics products (307)
Leather and leather products
220 Leather tanning and finishing (311)
221 Footwear, except rubber and plastic (313, 314)
222 Leather products, except footwear (315-317, 319)

Durable goods

Lumber and wood products, except furniture
230 Logging (241)
231 Sawmills, planing mills, and millwork (242, 243)
232 Wood buildings and mobile homes (245)
241 Miscellaneous wood products (244, 249)
242 Furniture and fixtures (25)
Stone, clay, glass, and concrete products
250 Glass and glass products (321-323)
251 Cement, concrete, gypsum, and plaster products (324, 327)
252 Structural clay products (325)
261 Pottery and related products (326)
262 Miscellaneous nonmetallic mineral and stone products (328, 329)
Metal industries
270 Blast furnaces, steelworks, rolling and finishing mills (331)
271 Iron and steel foundries (332)
272 Primary aluminum industries (3334, part 334, 3353-3355, 3361)

Industry Codes (continued)

Code Industry

MANUFACTURING-Continued
Durable goods-Continued

280 Other primary metal industries (3331-3333, 3339, part 334, 3351,
 3356,3357,3362,3369,339)
281 Cutlery, handtools, and other hardware (342)
282 Fabricated structural metal products (344)
290 Screw machine products (345)
291 Metal forgings and stampings (346)
292 Ordnance (348)
300 Miscellaneous fabricated metal products (341, 343, 347, 349)
301 Not specified metal industries
Machinery, except electrical
310 Engines and turbines (351)
311 Farm machinery and equipment (352)
312 Construction and material handling machines (353)
320 Metalworking machinery (354)
321 Office and accounting machines (357, except 3573)
322 Electronic computing equipment (3573)
331 Machinery, except electrical, n.e.c. (355, 356, 358, 359)
332 Not specified machinery
Electrical machinery, equipment, and supplies
340 Household appliances (363)
341 Radio, T.V., and communication equipment (365, 366)
342 Electrical machinery, equipment, and supplies, n.e.c. (361, 362,
 364, 367, 369)
350 Not specified electrical machinery, equipment, and supplies
Transportation equipment
351 Motor vehicles and motor vehicle equipment (371)
352 Aircraft and parts (372)
360 Ship and boat building and repairing (373)
361 Railroad locomotives and equipment (374)
362 Guided missiles, space vehicles, and parts (376)
370 Cycles and miscellaneous transportation equipment (375, 379)
Professional and photographic equipment, and watches
371 Scientific and controlling instruments (381, 382)
372 Optical and health services supplies (383, 384, 385)
380 Photographic equipment and supplies (386)
381 Watches, clocks, and clockwork operated devices (387)
382 Not specified professional equipment
390 Toys, amusement, and sporting goods (394)
391 Miscellaneous manufacturing industries (39, except 394)
392 Not specified manufacturing industries

TRANSPORTATION, COMMUNICATIONS, AND
OTHER PUBLIC UTILITIES

Transportation
400 Railroads (40)
401 Bus service and urban transit (41, except 412)
402 Taxicab service (412)
410 Trucking service (421, 423)

Industry Codes (continued)

Code Industry

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES-Continued

411	Warehousing and storage (422)
412	U.S. Postal Service (43)
420	Water transportation (44)
421	Air transportation (45)
422	Pipelines, except natural gas (46)
432	Services incidental to transportation (47)
	Communications
440	Radio and television broadcasting (483)
441	Telephone (wire and radio) (481)
442	Telegraph and miscellaneous communication services (482, 489)
	Utilities and sanitary services
460	Electric light and power (491)
461	Gas and steam supply systems (492, 496)
462	Electric and gas, and other combinations (493)
470	Water supply and irrigation (494, 497)
471	Sanitary services (495)
472	Not specified utilities

WHOLESALE TRADE

Durable goods

500	Motor vehicles and equipment (501)
501	Furniture and home furnishings (502)
502	Lumber and construction materials (503)
510	Sporting goods, toys, and hobby goods (504)
511	Metals and minerals, except petroleum (505)
512	Electrical goods (506)
521	Hardware, plumbing and heating supplies (507)
522	Not specified electrical and hardware products
530	Machinery, equipment, and supplies (508)
531	Scrap and waste materials (5093)
532	Miscellaneous wholesale, durable goods (5094, 5099)

Nondurable goods

540	Paper and paper products (511)
541	Drugs, chemicals, and allied products (512, 516)
542	Apparel, fabrics, and notions (513)
550	Groceries and related products (514)
551	Farm products - raw materials (515)
552	Petroleum products (517)
560	Alcoholic beverages (518)
561	Farm supplies (5191)
562	Miscellaneous wholesale, nondurable goods (5194, 5198, 5199)
571	Not specified wholesale trade

Industry Codes (continued)

<u>Code</u>	<u>Industry</u>
RETAIL TRADE	
580	Lumber and building material retailing (521, 523)
581	Hardware stores (525)
582	Retail nurseries and garden stores (526)
590	Mobile home dealers (527)
591	Department stores (531)
592	Variety stores (533)
600	Miscellaneous general merchandise stores (539)
601	Grocery stores (541)
602	Dairy products stores (545)
610	Retail bakeries (546)
611	Food stores, n.e.c. (542, 543, 544, 549)
612	Motor vehicle dealers (551, 552)
620	Auto and home supply stores (553)
621	Gasoline service stations (554)
622	Miscellaneous vehicle dealers (555, 556, 557, 559)
630	Apparel and accessory stores, except shoe (56, except 566)
631	Shoe stores (566)
632	Furniture and home furnishings stores (571)
640	Household appliances, T.V., and radio stores (572, 573)
641	Eating and drinking places (58)
642	Drug stores (591)
650	Liquor stores (592)
651	Sporting goods, bicycles, and hobby stores (5941, 5945, 5946)
652	Book and stationery stores (5942, 5943)
660	Jewelry stores (5944)
661	Sewing, needlework, and piece goods stores (5949)
662	Mail order houses (5961)
670	Vending machine operators (5962)
671	Direct selling establishments (5963)
672	Fuel and ice dealers (598)
681	Retail florists (5992)
682	Miscellaneous retail stores (593, 5947, 5948, 5993, 5994, 5999)
691	Not specified retail trade

FINANCE, INSURANCE, AND REAL ESTATE

700	Banking (60)
701	Savings and loan associations (612)
702	Credit agencies, n.e.c. (61, except 612)
710	Security, commodity brokerage, and investment companies (62, 67)
711	Insurance (63, 64)
712	Real estate, including real estate-insurance law offices (65,66)

BUSINESS AND REPAIR SERVICES

721	Advertising (731)
722	Services to dwellings and other buildings (734)
730	Commerical research, development, and testing labs (7391, 7397)
731	Personnel supply services (736)

Industry Codes (continued)

Code Industry

BUSINESS AND REPAIR SERVICES-Continued

732 Business management and consulting services (7392)
740 Computer and data processing services (737)
741 Detective and protective services (7393)
742 Business services, n.e.c. (732, 733, 735, 7394, 7395, 7396, 7399)
750 Automotive services, except repair (751, 752, 754)
751 Automotive repair shops (753)
752 Electrical repair shops (762, 7694)
760 Miscellaneous repair services (763, 764, 7692, 7699)

PERSONAL SERVICES

761 Private households (88)
762 Hotels and motels (701)
770 Lodging places, except hotels and motels (702, 703, 704)
771 Laundry, cleaning, and garment services (721)
772 Beauty shops (723)
780 Barber shops (724)
781 Funeral service and crematories (726)
782 Shoe repair shops (725)
790 Dressmaking shops (part 729)
791 Miscellaneous personal services (722, part 729)

ENTERTAINMENT AND RECREATION SERVICES.

800 Theaters and motion pictures (78, 792)
801 Bowling alleys, billiard and pool parlors (793)
802 Miscellaneous entertainment and recreation services (791, 794, 799)

PROFESSIONAL AND RELATED SERVICES

812 Offices of physicians (801, 803)
820 Offices of dentists (802)
821 Offices of chiropractors (8041)
822 Offices of optometrists (8042)
830 Offices of health practitioners, n.e.c. (8049)
831 Hospitals (806)
832 Nursing and personal care facilities (805)
840 Health services, n.e.c. (807, 808, 809)
841 Legal services (81)
842 Elementary and secondary schools (821)
850 Colleges and universities (822)
851 Business, trade, and vocational schools (824)
852 Libraries (823)
860 Educational services, n.e.c. (829)
861 Job training and vocational rehabilitation services (833)
862 Child day care services (835)
870 Residential care facilities, without nursing (836)
871 Social services, n.e.c. (832, 839)
872 Museums, art galleries, and zoos (84)

Industry Codes (continued)

<u>Code</u>	<u>Industry</u>
PROFESSIONAL AND RELATED SERVICES-Continued	
880	Religious organizations (866)
881	Membership organizations (861-865, 869)
882	Engineering, architectural, and surveying services (891)
890	Accounting, auditing, and bookkeeping services (893)
891	Noncommercial educational and scientific research (892)
892	Miscellaneous professional and related services (899)

PUBLIC ADMINISTRATION

900	Executive and legislative offices (911-913)
901	General government, n.e.c. (919)
910	Justice, public order, and safety (92)
921	Public finance, taxation, and monetary policy (93)
922	Administration of human resources programs (94)
930	Administration of environmental quality and housing programs (95)
931	Administration of economic programs (96)
932	National security and international affairs (97)

EXPERIENCED UNEMPLOYED NOT CLASSIFIED BY INDUSTRY

991	Last job Armed Forces ¹
992	Last worked 1974 or earlier ²

¹Code 991 represents people who were unemployed and whose last job was as a member of the Armed Forces.

²Code 992 represents people who were unemployed with previous work experience, but who have not worked in the five years preceding the census. The census questionnaires asked for information on the last industry for people who worked since 1975.

APPENDIX B
CENSUS OCCUPATION CODES

APPENDIX B

CENSUS OCCUPATION CODES

This appendix provides Occupation Codes used in the 1980 Census.¹

1. SOURCE: U.S. Department of Commerce, Bureau of the Census, 1980 Census of Population and Housing, *Technical Documentation*, 1983.

Occupation Codes

(The numbers in parentheses refer to the 1980 Standard Occupational Classification code equivalents. Pt means part. N.e.c. means not elsewhere classified.)

1980
CODE

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

Executive, Administrative, and Managerial Occupations

003	Legislators (111)
004	Chief executives and general administrators, public administration (112)
005	Administrators and officials, public administration (1132-1139)
006	Administrators, protective services (1131)
007	Financial managers (122)
008	Personnel and labor relations managers (123)
009	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Managers, properties and real estate (1353)
017	Postmasters and mail superintendents (1344)
018	Funeral directors (pt 1359)
019	Managers and administrators, n.e.c., (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)
	Management Related Occupations
023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
028	Purchasing agents and buyers, farm products (1443)
029	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449)
034	Business and promotion agents (145)
035	Construction inspectors (1472)
036	Inspectors and compliance officers, except construction (1473)
037	Management related occupations, n.e.c. (149)

Professional Specialty Occupations

	Engineers, Architects, and Surveyors
043	Architects (161)
	Engineers
044	Aerospace (1622)
045	Metallurgical and materials (1623)
046	Mining (1624)
047	Petroleum (1625)
048	Chemical (1626)
049	Nuclear (1627)
053	Civil (1628)
054	Agricultural (1632)
055	Electrical and electronic (1633)
056	Industrial (1634)
057	Mechanical (1635)

Occupation Codes (continued)

Professional Specialty Occupations (continued)

058	Marine and naval architects (1637)
059	Engineers, n.e.c. (1639)
063	Surveyors and mapping scientists (164)
	Mathematical and Computer Scientists
064	Computer systems analysts and scientists (171)
065	Operations and systems researchers and analysts (172)
066	Actuaries (1732)
067	Statisticians (1733)
068	Mathematical scientists, n.e.c. (1739)
	Natural Scientists
069	Physicists and astronomers (1842, 1843)
073	Chemists, except biochemists (1845)
074	Atmospheric and space scientists (1846)
075	Geologists and geodesists (1847)
076	Physical scientists, n.e.c. (1849)
077	Agricultural and food scientists (1853)
078	Biological and life scientists (1854)
079	Forestry and conservation scientists (1852)
083	Medical scientists (1855)
	Health Diagnosing Occupations
084	Physicians (261)
085	Dentists (262)
086	Veterinarians (27)
087	Optometrists (281)
088	Podiatrists (283)
089	Health diagnosing practitioners, n.e.c. (289)
	Health Assessment and Treating Occupations
095	Registered nurses (29)
096	Pharmacists (301)
097	Dietitians (302)
	Therapists
098	Inhalation therapists (3031)
099	Occupational therapists (3032)
103	Physical therapists (3033)
104	Speech therapists (3034)
105	Therapists, n.e.c. (3039)
106	Physicians' assistants (304)
	Teachers, Postsecondary
113	Earth, environmental, and marine science teachers (2212)
114	Biological science teachers (2213)
115	Chemistry teachers (2214)
116	Physics teachers (2215)
117	Natural science teachers, n.e.c. (2216)
118	Psychology teachers (2217)
119	Economics teachers (2218)
123	History teachers (2222)
124	Political science teachers (2223)
125	Sociology teachers (2224)
126	Social science teachers, n.e.c. (2225)
127	Engineering teachers (2226)

Occupation Codes (continued)

Teachers, Postsecondary (continued)	
128	Mathematical science teachers (2227)
129	Computer science teachers (2228)
133	Medical science teachers (2231)
134	Health specialties teachers (2232)
135	Business, commerce, and marketing teachers (2233)
136	Agriculture and forestry teachers (2234)
137	Art, drama, and music teachers (2235)
138	Physical education teachers (2236)
139	Education teachers (2237)
143	English teachers (2238)
144	Foreign language teachers (2242)
145	Law teachers (2243)
146	Social work teachers (2244)
147	Theology teachers (2245)
148	Trade and industrial teachers (2246)
149	Home economics teachers (2247)
153	Teachers, postsecondary, n.e.c. (2249)
154	Postsecondary teachers, subject not specified
Teachers, Except Postsecondary	
155	Teachers, prekindergarten and kindergarten (231)
156	Teachers, elementary school (232)
157	Teachers, secondary school (233)
158	Teachers, special education (235)
159	Teachers, n.e.c. (236, 239)
163	Counselors, educational and vocational (24)
Librarians, Archivists, and Curators	
164	Librarians (251)
165	Archivists and curators (252)
Social Scientists and Urban Planners	
166	Economists (1912)
167	Psychologists (1915)
168	Sociologists (1916)
169	Social scientists, n.e.c. (1913, 1914, 1919)
173	Urban planners (192)
Social, Recreation, and Religious Workers	
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
Lawyers and Judges	
178	Lawyers
179	Judges
Writers, artists, entertainers, and athletes	
183	Authors
184	Technical writers
185	Designers
186	Musicians and composers
187	Actors and directors

Occupation Codes (continued)

Writers, artists, entertainers, and athletes (continued)	
188	Painters, sculptors, craft-artists, and artist printmakers
189	Photographers
193	Dancers
194	Artists, performers, and related workers, n.e.c.
195	Editors and reporters
197	Public relations specialists
198	Announcers
199	Athletes
TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	
Technicians and Related Support Occupations	
Health Technologists and Technicians	
203	Clinical laboratory technologists and technicians (362)
204	Dental hygienists (363)
205	Health record technologists and technicians (364)
206	Radiologic technicians (365)
207	Licensed practical nurses (366)
208	Health technologists and technicians, n.e.c. (369)
Technologists and Technicians, Except Health	
Engineering and Related Technologists and Technicians	
213	Electrical and electronic technicians (3711)
214	Industrial engineering technicians (3712)
215	Mechanical engineering technicians (3713)
216	Engineering technicians, n.e.c. (3719)
217	Drafting occupations (372)
218	Surveying and mapping technicians (373)
Science Technicians	
223	Biological technicians (382)
224	Chemical technicians (3831)
225	Science technicians, n.e.c. (3832, 3833, 384, 389)
Technicians, Except Health, Engineering, and Science	
226	Airplane pilots and navigators (825)
227	Air traffic controllers (392)
228	Broadcast equipment operators (393)
229	Computer programmers (3971, 3972)
233	Tool programmers, numerical control (3974)
234	Legal assistants (396)
235	Technicians, n.e.c. (399)
Sales Occupations	
243	Supervisors and proprietors, sales occupations, (40)
Sales Representatives, Finance and Business Services	
253	Insurance sales occupations (4122)
254	Real estate sales occupations (4123)
255	Securities and financial services sales occupations (4124)

Occupation Codes (continued)

Sales Representatives, Finance and Business Services (continued)	
256	Advertising and related sales occupations (4153)
257	Sales occupations, other business services (4152)
Sales Representatives, Commodities Except Retail	
258	Sales engineers (421)
259	Sales representatives, mining, manufacturing, and wholesale (423, 424)
Sales Workers, Retail and Personal Services	
263	Sales workers, motor vehicles and boats (4342, 4344)
264	Sales workers, apparel (4346)
265	Sales workers, shoes (4351)
266	Sales workers, furniture and home furnishings (4348)
267	Sales workers, radio, TV, hi-fi, and appliances (4343, 4352)
268	Sales workers, hardware and building supplies (4353)
269	Sales workers, parts (4367)
274	Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)
275	Sales counter clerks (4363)
276	Cashiers (4364)
277	Street and door-to-door sales workers (4366)
278	News vendors (4365)
Sales Related Occupations	
283	Demonstrators, promoters and models, sales (445)
284	Auctioneers (447)
285	Sales support occupations, n.e.c. (444, 446, 449)
Administrative Support Occupations, Including Clerical	
Supervisors, Administrative Support Occupations	
303	Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
304	Supervisors, computer equipment operators (4512)
305	Supervisors, financial records processing (4521)
306	Chief communications operators (4523)
307	Supervisors, distribution, scheduling, and adjusting clerks (4522, 4524-4528)
Computer equipment operators	
308	Computer operators (4612)
309	Peripheral equipment operators (4613)
Secretaries, Stenographers and Typists	
313	Secretaries (4622)
314	Stenographers (4623)
315	Typists (4624)
Information Clerks	
316	Interviewers (4642)
317	Hotel clerks (4643)
318	Transportation ticket and reservation agents (4644)
319	Receptionists (4645)
323	Information clerks, n.e.c. (4649)

Occupation Codes (continued)

Records Processing Occupations, Except Financial	
325	Classified-ad clerks (4662)
326	Correspondence clerks (4663)
327	Order clerks (4664)
328	Personnel clerks, except payroll and timekeeping (4692)
329	Library clerks (4694)
335	File clerks (4696)
336	Records clerks (4699)
Financial Records Processing Occupations	
337	Bookkeepers, accounting, and auditing clerks (4712)
338	Payroll and timekeeping clerks (4713)
339	Billing clerks (4715)
343	Cost and rate clerks (4716)
344	Billing, posting, and calculating machine operators (4718)
Duplicating, Mail and Other Office Machine Operators	
345	Duplicating machine operators (4722)
346	Mail preparing and paper handling machine operators (4723)
347	Office machine operators, n.e.c. (4729)
Communications Equipment Operators	
348	Telephone operators (4732)
349	Telegraphers (4733)
353	Communications equipment operators, n.e.c. (4739)
Mail and Message Distributing Occupations	
354	Postal clerks, exc. mail carriers (4742)
355	Mail carriers, postal service (4743)
356	Mail clerks, exc. postal service (4744)
357	Messengers (4745)
Material Recording, Scheduling, and Distributing Clerks, n.e.c.	
359	Dispatchers (4751)
363	Production coordinators (4752)
364	Traffic, shipping, and receiving clerks (4753)
365	Stock and inventory clerks (4754)
366	Meter readers (4755)
368	Weighers, measurers, and checkers (4756)
369	Samplers (4757)
373	Expeditors (4758)
374	Material recording, scheduling, and distributing clerks, n.e.c. (4759)
Adjusters and Investigators	
375	Insurance adjusters, examiners, and investigators (4782)
376	Investigators and adjusters, except insurance (4783)
377	Eligibility clerks, social welfare (4784)
378	Bill and account collectors (4786)
Miscellaneous Administrative Support Occupations	
379	General office clerks (463)
383	Bank tellers (4791)
384	Proofreaders (4792)
385	Data-entry keyers (4793)

Occupation Codes (continued)

Miscellaneous Administrative Support Occupations (continued)
 386 Statistical clerks (4794)
 387 Teachers' aides (4795)
 389 Administrative support occupations, n.e.c. (4787, 4799)

SERVICE OCCUPATIONS

Private Households Occupations
 403 Launderers and ironers (503)
 404 Cooks, private household (504)
 405 Housekeepers and butlers (505)
 406 Child care workers, private household (506)
 407 Private household cleaners and servants (502, 507, 509)

Protective Service Occupations
 Supervisors, Protective Service Occupations
 413 Supervisors, firefighting and fire prevention occupations (5111)
 414 Supervisors, police and detectives (5112)
 415 Supervisors, guards (5113)

Firefighting and Fire Prevention Occupations
 416 Fire inspection and fire prevention occupations (5122)
 417 Firefighting occupations (5123)

Police and Detectives
 418 Police and detectives, public service (5132)
 423 Sheriffs, bailiffs, and other law enforcement officers (5134)
 424 Correctional institution officers (5133)

Guards
 425 Crossing guards (5142)
 426 Guards and police, exc. public service (5144)
 427 Protective service occupations, n.e.c. (5149)

Service Occupations, Except Protective and Household
 Food Preparation and Service Occupations
 433 Supervisors, food preparation and service occupations (5211)
 434 Bartenders (5212)
 435 Waiters and waitresses (5213)
 436 Cooks, except short order (5214)
 437 Short-order cooks (5215)
 438 Food counter, fountain and related occupations (5216)
 439 Kitchen workers, food preparation (5217)
 443 Waiters'/waitresses' assistants (5218)
 444 Miscellaneous food preparation occupations (5219)

Occupation Codes (continued)

Health Service Occupations
 445 Dental assistants (5232)
 446 Health aides, except nursing (5233)
 447 Nursing aides, orderlies, and attendants (5236)

Cleaning and Building Service Occupations, except Household
 Supervisors, cleaning and building service workers (5241)
 449 Maids and housemen (5242, 5249)
 453 Janitors and cleaners (5244)
 454 Elevator operators (5245)
 455 Pest control occupations (5246)

Personal Service Occupations
 Supervisors, personal service occupations (5251)
 457 Barbers (5252)
 458 Hairdressers and cosmetologists (5253)
 459 Attendants, amusement and recreation facilities (5254)
 463 Guides (5255)
 464 Ushers (5256)
 465 Public transportation attendants (5257)
 466 Baggage porters and bellhops (5262)
 467 Welfare service aides (5263)
 468 Child care workers, except private household (5264)
 469 Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

Farm operators and managers
 473 Farmers, except horticultural (5512-5514)
 474 Horticultural specialty farmers (5515)
 475 Managers, farms, except horticultural (5522-5524)
 476 Managers, horticultural specialty farms (5525)

Farm Occupations, Except Managerial
 477 Supervisors, farm workers (5611)
 479 Farm workers (5612-5617)
 483 Marine life cultivation workers (5618)
 484 Nursery workers (5619)

Related Agricultural Occupations
 485 Supervisors, related agricultural occupations (5621)
 486 Groundskeepers and gardeners, except farm (5622)
 487 Animal caretakers, except farm (5624)
 488 Graders and sorters, agricultural products (5625)
 489 Inspectors, agricultural products (5627)

Forestry and Logging Occupations
 494 Supervisors, forestry and logging workers (571)
 495 Forestry workers, except logging (572)
 496 Timber cutting and logging occupations (573, 579)

Fishers, Hunters, and Trappers
 497 Captains and other officers, fishing vessels (pt 8241)
 498 Fishers (583)
 499 Hunters and trappers (584)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

	Mechanics and Repairers	575	Electricians, except apprentices (pt 6432)
503	Supervisors, mechanics and repairers (60)	576	Electrician apprentices (pt 6432)
	Mechanics and Repairers, Except Supervisors	577	Electrical power installers and repairers (6433)
	Vehicle and Mobile Equipment Mechanics and Repairers	579	Painters, construction and maintenance (6442)
505	Automobile mechanics, except apprentices (pt 6111)	583	Paperhangers (6443)
506	Automobile mechanic apprentices (pt 6111)	584	Plasterers (6444)
507	Bus, truck, and stationary engine mechanics (6112)	585	Plumbers, pipefitters, and steamfitters, except apprentices (pt 645)
508	Aircraft engine mechanics (6113)	587	Plumber, pipefitter, and steamfitter apprentices (pt 645)
509	Small engine repairers (6114)	588	Concrete and terrazzo finishers (6463)
514	Automobile body and related repairers (6115)	589	Glaziers (6464)
515	Aircraft mechanics, exc. engine (6116)	593	Insulation workers (6465)
516	Heavy equipment mechanics (6117)	594	Paving, surfacing, and tamping equipment operators (6466)
517	Farm equipment mechanics (6118)	595	Roofers (6468)
518	Industrial machinery repairers (613)	596	Sheetmetal duct installers (6472)
519	Machinery maintenance occupations (614)	597	Structural metal workers (6473)
	Electrical and Electronic Equipment Repairers	598	Drillers, earth (6474)
523	Electronic repairers, communications and industrial equipment (6151, 6153, 6155)	599	Construction trades, n.e.c. (6467, 6475, 6476, 6479)
525	Data processing equipment repairers (6154)		Extractive Occupations
526	Household appliance and power tool repairers (6156)	613	Supervisors, extractive occupations (632)
527	Telephone line installers and repairers (6157)	614	Drillers, oil well (652)
529	Telephone installers and repairers (6158)	615	Explosives workers (653)
533	Miscellaneous electrical and electronic equipment repairers (6152, 6159)	616	Mining machine operators (654)
534	Heating, air conditioning, and refrigeration mechanics (616)	617	Mining occupations, n.e.c. (656)
	Miscellaneous Mechanics and Repairers		Precision Production Occupations
535	Camera, watch, and musical instrument repairers (6171, 6172)	633	Supervisors, production occupations (67, 71)
536	Locksmiths and safe repairers (6173)		Precision Metal Working Occupations
538	Office machine repairers (6174)	634	Tool and die makers, except apprentices (pt 6811)
539	Mechanical controls and valve repairers (6175)	635	Tool and die maker apprentices (pt 6811)
543	Elevator installers and repairers (6176)	636	Precision assemblers, metal (6812)
544	Millwrights (6178)	637	Machinists, except apprentices (pt 6813)
547	Specified mechanics and repairers, n.e.c. (6177, 6179)	639	Machinist apprentices (pt 6813)
549	Not specified mechanics and repairers	643	Boilermakers (6814)
	Construction Trades	644	Precision grinders, fitters, and tool sharpeners (6816)
	Supervisors, construction occupations	645	Patternmakers and model makers, metal (6817)
553	Supervisors, brickmasons, stonemasons, and tile setters (6312)	646	Lay-out workers (6821)
554	Supervisors, carpenters and related workers (6313)	647	Precious stones and metals workers (jewelers) (6822, 6866)
555	Supervisors, electricians and power transmission installers (6314)	649	Engravers, metal (6823)
556	Supervisors, painters, paperhangers, and plasterers (6315)	653	Sheet metal workers, except apprentices (pt 6824)
557	Supervisors, plumbers, pipefitters, and steamfitters (6316)	654	Sheet metal worker apprentices (pt 6824)
558	Supervisors, n.e.c. (6311, 6318)	655	Miscellaneous precision metal workers (6829)
	Construction Trades, Except Supervisors		Precision Woodworking Occupations
563	Brickmasons and stonemasons, except apprentices (pt 6412, pt 6413)	656	Patternmakers and model makers, wood (6831)
564	Brickmason and stonemason apprentices (pt 6412, 6413)	657	Cabinet makers and bench carpenters (6832)
565	Tile setters, hard and soft (6414, pt 6462)	658	Furniture and wood finishers (6835)
566	Carpet installers (pt 6462)		
567	Carpenters, except apprentices (pt 6422)		
569	Carpenter apprentices (6422)		
573	Drywall installers (6424)		

659 Miscellaneous precision woodworkers (6839)
Precision Textile, Apparel, and Furnishings Machine Workers
666 Dressmakers (pt 6852, pt 7752)
667 Tailors (pt 6852)
668 Upholsterers (6853)
669 Shoe repairers (6854)
673 Apparel and fabric patternmakers (6856)
674 Miscellaneous precision apparel and fabric workers (6859, pt 7752)
Precision Workers, Assorted Materials
675 Hand molders and shapers, except jewelers (6861)
676 Patternmakers, lay-out workers, and cutters (6862)
677 Optical goods workers (6864, pt 7477, pt 7677)
678 Dental laboratory and medical appliance technicians (6865)
679 Bookbinders (6844)
683 Electrical and electronic equipment assemblers (6867)
684 Miscellaneous precision workers, n.e.c. (6869)
Precision Food Production Occupations
686 Butchers and meat cutters (6871)
687 Bakers (6872)
688 Food batchmakers (6873, 6879)
Precision Inspectors, Testers, and Related Workers
689 Inspectors, testers, and graders (6881, 828)
693 Adjusters and calibrators (6882)
Plant and System Operators
694 Water and sewage treatment plant operators (691)
695 Power plant operators (pt 693)
696 Stationary engineers (pt 693, 7668)
699 Miscellaneous plant and system operators (692, 694, 695, 696)

OPERATORS, FABRICATORS, AND LABORERS

Machine Operators, Assemblers, and Inspectors
Machine Operators and Tenders, except Precision
Metalworking and Plastic Working Machine Operators
703 Lathe and turning machine set-up operators (7312)
704 Lathe and turning machine operators (7512)
705 Milling and planing machine operators (7313, 7513)
706 Punching and stamping press machine operators (7314, 7317, 7514,
707 Rolling machine operators (7316, 7516)
708 Drilling and boring machine operators (7318, 7518)
709 Grinding, abrading, buffing, and polishing machine operators
(7322, 7324, 7522)
713 Forging machine operators (7319, 7519)
714 Numerical control machine operators (7326)
715 Miscellaneous metal, plastic, stone, and glass working machine
operators (7329, 7529)
717 Fabricating machine operators, n.e.c. (7339, 7539)
Metal and Plastic Processing Machine Operators
719 Molding and casting machine operators (7315, 7342, 7515, 7542)
723 Metal plating machine operators (7343, 7543)
724 Heat treating equipment operators (7344, 7544)
725 Miscellaneous metal and plastic processing machine operators
(7349, 7549)

726 Woodworking Machine Operators
Wood lathe, routing, and planing machine operators
(7431, 7432, 7631, 7632)
727 Sawing machine operators (7433, 7633)
728 Shaping and joining machine operators (7435, 7635)
729 Nailing and tacking machine operators (7636)
733 Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
Printing Machine Operators
734 Printing machine operators (7443, 7643)
735 Photoengravers and lithographers (6842, 7444, 7644)
736 Typesetters and compositors (6841, 7642)
737 Miscellaneous printing machine operators (6849, 7449, 7649)
Textile, Apparel, and Furnishings Machine Operators
738 Winding and twisting machine operators (7451, 7651)
739 Knitting, looping, tapping, and weaving machine operators
(7452, 7652)
743 Textile cutting machine operators (7654)
744 Textile sewing machine operators (7655)
745 Shoe machine operators (7656)
747 Pressing machine operators (7657)
748 Laundering and dry cleaning machine operators (6855, 7658)
749 Miscellaneous textile machine operators (7459, 7659)
Machine Operators, Assorted Materials
753 Cementing and gluing machine operators (7661)
754 Packaging and filling machine operators (7462, 7662)
755 Extruding and forming machine operators (7463, 7663)
756 Mixing and blending machine operators (7664)
757 Separating, filtering, and clarifying machine operators
(7476, 7666, 7676)
758 Compressing and compacting machine operators (7467, 7667)
759 Painting and paint spraying machine operators (7669)
763 Roasting and baking machine operators, food (7472, 7672)
764 Washing, cleaning, and pickling machine operators (7673)
765 Folding machine operators (7474, 7674)
766 Furnace, kiln, and oven operators, exc. food (7675)
768 Crushing and grinding machine operators (pt 7477, pt 7677)
769 Slicing and cutting machine operators (7478, 7678)
773 Motion picture projectionists (pt 7479)
774 Photographic process machine operators (6863, 6868, 7671)
777 Miscellaneous and not specified machine operators:
779 Miscellaneous and not specified machine operators
Machine operators, not specified
783 Fabricators, Assemblers, and Hand Working Occupations
784 Welders and cutters (7332, 7532, 7714)
Solderers and blazers (7333, 7533, 7717)

785 Assemblers (772, 774)
 786 Hand cutting and trimming occupations (7753)
 787 Hand molding, casting, and forming occupations (7754, 7755)
 789 Hand painting, coating, and decorating occupations (7756)
 793 Hand engraving and printing occupations (7757)
 794 Hand grinding and polishing occupations (7758)
 795 Miscellaneous hand working occupations (7759)

Production Inspectors, Testers, Samplers, and Weighers
 796 Production inspectors, checkers, and examiners (782, 787)
 797 Production testers (783)
 798 Production samplers and weighers (784)
 799 Graders and sorters, exc. agricultural (785)

Transportation and Material Moving Occupations

Motor Vehicle Operators
 803 Supervisors, motor vehicle operators (8111)
 804 Truck drivers, heavy (8212, 8213)
 805 Truck drivers, light (8214)
 806 Driver-sales workers (8218)
 808 Bus drivers (8215)
 809 Taxicab drivers and chauffeurs (8216)
 813 Parking lot attendants (874)
 814 Motor transportation occupations, n.e.c. (8219)

Transportation Occupations, Except Motor Vehicles

Rail Transportation Occupations
 823 Railroad conductors and yardmasters (8113)
 824 Locomotive operating occupations (8232)
 825 Railroad brake, signal, and switch operators (8233)
 826 Rail vehicle operators, n.e.c. (8239)

Water Transportation Occupations
 828 Ship captains and mates, except fishing boats (pt 8241, 8242)
 829 Sailors and deckhands (8243)
 833 Marine engineers (8244)
 834 Bridge, lock, and lighthouse tenders (8245)

Material Moving Equipment Operators
 843 Supervisors, material moving equipment operators (812)
 844 Operating engineers (8312)
 845 Longshore equipment operators (8313)
 848 Hoist and winch operators (8314)
 849 Crane and tower operators (8315)
 853 Excavating and loading machine operators (8316)
 855 Grader, dozer, and scraper operators (8317)
 856 Industrial truck and tractor equipment operators (8318)
 859 Miscellaneous material moving equipment operators (8319)

863 Handlers, Equipment Cleaners, Helpers, and Laborers
 864 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
 Helpers, mechanics and repairers (863)
 Helpers, Construction and Extractive Occupations
 865 Helpers, construction trades (8641-8645, 8648)
 866 Helpers, surveyor (8646)
 867 Helpers, extractive occupations (865)
 869 Construction laborers (871)
 873 Production helpers (861, 862)
 Freight, Stock, and Material Handlers
 875 Garbage collectors (8722)
 876 Stevedores (8723)
 877 Stock handlers and baggers (8724)
 878 Machine feeders and offbearers (8725)
 883 Freight, stock, and material handlers, n.e.c. (8726)
 885 Garage and service station related occupations (873)
 887 Vehicle washers and equipment cleaners (875)
 888 Hand packers and packagers (8761)
 889 Laborers, except construction (8769)

905 Unemployed, last worked in Armed Forces since 1975
 909 Unemployed, last worked in 1974 or earlier

APPENDIX C
DEPARTMENT OF DEFENSE OCCUPATION CODES

APPENDIX C

DEPARTMENT OF DEFENSE OCCUPATION CODES

This appendix provides the DoD Occupation Codes.¹

1. SOURCE: Department of Defense, Office of the Assistant Secretary of Defense, Manpower, Reserve Affairs and Logistics, *Occupational Conversion Manual* (Alexandria, VA: Defense Manpower Data Center (DMDC), December 1982). Note: There is a new edition of this manual, published in late 1984. The 1982 manual has been used in this report, however, because the crosswalk was constructed from this MOS base.)

DOD OCCUPATION CODE TO IDOS CODE

DoD Occ.	Title	Applicable IDOS Codes
ENLISTED:		
010	Infantry, General.....	TA
011	Special Forces.....	GN, RR
012	Military Training Instructor.....	GE
020	Armor and Amphibious, General.....	RH, TB
030	Combat Engineering, General.....	PC, TC
041	Artillery and Gunnery.....	TD
042	Rocket Artillery.....	TD
043	Missile Artillery, Operating Crew.....	TD
050	Air Crew, General.....	GN, GQ, TD
051	Pilots and Navigators.....	GQ
060	Boatswains.....	RR, RW
061	Navigators.....	RR
062	Small Boat Operators.....	RR
063	Seamanship, General.....	RR
070	Security Guards.....	ML
100	Radio/Radar, General.....	PJ
101	Communications Radio.....	GT, PJ
102	Navigation, Communication and Countermeasure, N.E.C.....	PJ, PK, PN
103	Air Traffic Control Radar.....	PJ
104	Surveillance/Target Acquisition and Tracking Radar.....	GN, PJ, PK, PO, RZ, TD
111	Bomb-Navigation.....	PJ
112	Airborne Fire Control.....	PJ
113	Shipboard and Other Fire Control.....	PJ, PO
121	Missile Guidance and Control.....	PJ, PK, PN, PO, PS, TD
122	Missile Checkout Equipment, Test Equipment, and Calibration.....	PJ
123	Torpedo Repair.....	PO
130	Sonar, General.....	PJ
140	Nuclear Weapons Equipment Repair, General.....	PJ, PO
150	ADP Computers, General.....	PJ, PK
160	Teletype and Cryptographic Equipment, General.....	GT, PJ
191	Training Devices.....	PJ, PS
193	Shipboard Inertial Navigation Systems.....	PJ
198	Electronic Instruments, N.E.C.....	PJ, PK, PN, PS
201	Radio Code.....	GT
202	Non-Code Radio.....	GT
203	Non-Radio Communications (Visual).....	GT
210	Sonar Operator, General.....	GI, GN, GQ
221	Radar.....	GN
222	Air Traffic Control.....	GG
230	Signal Intelligence/Electronic Warfare, General.....	GI
231	Intercept Operators (Code and Non-Code).....	GI
232	Analysis.....	GI
233	Electronic Countermeasures.....	GI, GN
241	Language Interrogation/Interpretation.....	GI, GN
242	Image Interpretation.....	GI
243	Operational Intelligence.....	GI, GY, TZ
244	Counterintelligence.....	GI
250	Combat Operations Control, General.....	GN, TB
260	Communications Center Operations, General.....	GI, GT
300	Medical Care and Treatment, General.....	GM
301	Operating Room.....	GM
302	Mental Care.....	GM
303	Therapy.....	GM
304	Orthopedic.....	GM
311	Laboratory.....	GM
312	Pharmacy.....	GM
313	Radiology.....	GM
321	Food Inspection and Veterinary Services.....	GA

Italicized letters are defined in introductory material.

OCCUPATIONAL CONVERSION MANUAL

DoD Occ.	Title	Applicable IDOS Codes
322	Preventive Medical Services.....	GM
330	Dental Care, General.....	GM
331	Dental Laboratory.....	GM
400	Photography, General.....	GU
411	Mapping.....	GC
412	Surveying.....	GC
413	Drafting.....	GC
414	Illustrating.....	GZ
420	Weather, General.....	GA
431	EOD/UDT.....	GZ, TA
433	Divers.....	GZ, TA
450	Musicians, General.....	MX, PS
491	Physical Science Laboratory.....	GA, GC, GZ, RW
492	Memorial Activities and Embalming.....	MG
493	Safety.....	MS
494	Nuclear, Biological, and Chemical Warfare Specialists.....	GZ, TZ
495	Firefighting and Damage Control.....	MS, RR
496	Other Technical Specialists and Assistants.....	GA, GC, GZ, PO, PZ, RZ
500	Personnel, General.....	GP, GY, JP
501	Recruiting and Counseling.....	GP
510	Administration, General.....	GN, GP, GU, GW, GY, GZ, JL, JS, JY, ML, RW
511	Stenography.....	JS
512	Legal.....	GL, JL
513	Medical.....	JM
520	Combined Personnel and Administration, General....	JF, JP, JY
521	First Sergeants, Sergeants Major, and Leading Chiefs.....	GY
531	Operators/Analysts.....	GK, GW, JK
532	Programmers.....	GK
541	Auditing and Accounting.....	GF, JF, JY
542	Disbursing.....	JF
551	Supply Administration.....	GW, JW, RW
552	Unit Supply.....	JW
553	Transportation.....	GQ, GW, JW, JY, MG
554	Postal.....	RW
555	Aviation Maintenance Records and Reports.....	GW, JW
556	Flight Operations.....	RQ
557	Production and Quality Control.....	GW
558	Functional Analysis.....	GW, GY
561	Chaplain's Assistants.....	MG
562	Recreation and Welfare.....	GE, GZ, MG
570	Information and Education, General.....	GE, GU
600	Aircraft, General.....	GW, PJ, PQ, RQ
601	Aircraft Engines.....	PQ
602	Aircraft Accessories.....	PB, PJ, PN, PQ, PS, RQ
603	Aircraft Structures.....	PQ
604	Aircraft Launch Equipment.....	RQ
610	Automotive, General.....	PB, PH, PS
611	Tracked Vehicles.....	PH
612	Construction Equipment.....	PH
621	Linemen.....	PB
622	Central Office.....	PB
623	Interior Communications.....	PB
631	Missile Engine.....	PO
632	Missile Mechanic.....	PO
633	Missile Launch and Support Facilities.....	PO, PS
640	Armament Maintenance, General.....	PO
641	Small Arms Repair.....	PO
642	Artillery Repair.....	PO
643	Turret Repair.....	PO
644	Nuclear Weapons Maintenance and Assembly.....	PO
645	Ammunition Repair.....	PO

Italicized letters are defined in introductory material.

DoD Occ.	Title	Applicable IDOS Codes
646	Aviation Ordnance.....	PO, PQ
647	Mines and Degaussing	GQ, PB, PO
651	Main Propulsion.....	PR, RR
652	Auxiliaries	PB, PR, RR, RZ
661	Nuclear Power	PJ, PR, RX, WE
662	Electric Power.....	PB, PS, RX
670	Precision Equipment, General	PN, PS, PZ
690	Other Mechanical and Electrical Equipment, General	GW, PA, PB, PH, PR, PS, RX
700	Metalworking, General.....	PA
701	Welding.....	PA
702	Machinists	PA, PS
703	Sheetmetal.....	PA
704	Metal Body Repair	PA, PH
710	Construction, General	GC, PB, PC, PS, RC, RX
711	Steelworking	PA
712	Woodworking	PA, PC, PS, PZ
713	Construction Equipment Operation	RC, RW, RZ
720	Utilities, General	PC, PR, PS, PZ, RR, RX, RZ
721	Electricians.....	PB, PS
740	Lithography, General	PU
750	Industrial Gas and Fuel Production, General.....	PZ
760	Fabric, Leather, and Rubber, General.....	PA, PS, PZ, RX
790	Other Craftsmen, N.E.C., General.....	PA, PR, PS, PZ, RZ
800	Food Service, General.....	MD, MG, RZ
801	Stewards and Enlisted Aides.....	JW, JY, MD, MG
811	Motor Vehicle Operators	ML, RH
812	Railway Operators.....	RH
821	Missile Fuel and Petroleum.....	RW
822	Warehousing and Equipment Handling	GW, JW, RW
823	Sales Store	JW, MG
830	Law Enforcement, General	ML, MX
831	Corrections.....	ML
832	Investigations.....	ML
840	Laundry and Personal Service, General.....	MG, RW
850	Auxiliary Labor, General.....	PC, PR, PZ, RQ, RW, RX, RZ
860	Forward Area Equipment Support, General.....	RW
870	Other Services, General.....	RW, RX, RZ
901	Patients.....	WZ
902	Prisoners	WZ
911	Cadets and Other Officer Candidates	WE
912	Students	WE
920	Undesignated Occupations, General	WZ
950	Not Occupationally Qualified, General	WE

OFFICER:

1A	General and Flag	EY, TZ
1B	Executives, N.E.C.....	CE, CL, EF, EI, EM, EV, EW, EY, GQ, TZ
2A	Fixed-Wing Fighter and Bomber Pilots	GE, GQ
2B	Other Fixed-Wing Pilots.....	GQ
2C	Helicopter Pilots	GQ
2D	Aircraft Crews	GQ
2E	Ground and Naval Arms.....	RR, TA, TB, TC, TD, TZ
2F	Missiles	EV, TD
2G	Operations Staff	CA, CZ, EM, ET, EW, EY, GG, GN, GQ, TD, TZ
2H	Civilian Pilots.....	GQ
3A	Intelligence, General.....	EI, EY, GI, TZ
3B	Communications Intelligence	EI, GI
3C	Counterintelligence	EI, GI
4A	Construction and Utilities	AC, CZ, EW, EY, GW
4B	Electrical/Electronic.....	AC, EV, EW, GW
4C	Communications and Radar.....	AC, ET, EW, GT, GW

Italicized letters are defined in introductory material.

OCCUPATIONAL CONVERSION MANUAL

DoD Occ.	Title	Applicable IDOS Codes
4D	Aviation Maintenance and Allied	AC, EV, EW, GQ, GW
4E	Ordnance.....	AC, EV, EW, GW, GZ
4F	Missile Maintenance	EV, EW, GW
4G	Ship Construction and Maintenance.....	AC, EW
4H	Ship Machinery.....	EV, EW, RR
4J	Safety.....	MS, TZ
4K	Chemical.....	AC, TZ
4L	Automotive and Allied.....	EW, GW
4M	Surveying and Mapping	AA, AC, GC
4N	Other	AC, CE, EV, EW, GC, GW, GZ, RR
5A	Physical Scientists.....	AA, CZ, EM, EV
5B	Meteorologists	AA, EV, GA
5C	Biological Scientists	AB, EY
5D	Social Scientists	CS, CZ, EY
5E	Psychologists	CS
5F	Legal	CL, GL
5G	Chaplains.....	CZ
5H	Social Workers	CZ
5J	Mathematicians and Statisticians.....	CA, GK
5K	Educators and Instructors.....	CE, GE
5L	Research and Development Coordinators.....	EV
5M	Community Activities Officers.....	CZ, EP
5N	Scientists and Professionals, N.E.C.....	CZ, GC
6A	Physicians	CM, EM, EV
6C	Dentists.....	CM, EM, EV
6E	General Nurses	CM, EM
6F	Nursing Specialists.....	CM, EV
6G	Veterinarians.....	AB, GA
6H	Allied Medical	CM, GM
7A	Administrators, General.....	CZ, EF, EV, EW, EY, GK, GY
7B	Training Administrators.....	CE, GE
7C	Manpower and Personnel	EP, EY, GP
7D	Comptrollers and Fiscal.....	EF, EY
7E	Data Processing	EW, EY, GK
7F	Pictorial.....	CU, EI
7G	Information	CU, CZ
7H	Police	EI, EY, ML
7L	Inspection.....	CZ
7M	Medical Administration	EM
7N	Morale and Welfare	EW, MG, MX
8A	Logistics, General	EW
8B	Supply	EW, GW
8C	Transportation.....	EW, RR, TZ
8D	Procurement and Production.....	EW
8E	Food Service.....	EF, EW, MD, MG
8F	Exchange and Commissary	MG
8G	Other	EW, EY, GY, MG
9A	Patients.....	WZ
9B	Students	WE
9E	Other	GQ, WE, WZ

Italicized letters are defined in introductory material.

IDOS CODE TO DOD OCCUPATION CODE

IDOS	Title	Applicable DoD Occ. Codes (Enlisted Precede Officer)
AA	Physical Sciences	4M, 5A, 5B
AB	Life Sciences	5C, 6G
AC	Engineers	4A, 4B, 4C, 4D, 4E, 4G, 4K, 4M, 4N
CA	Mathematicians	2G, 5J
CE	Education Professionals	1B, 4N, 5K, 7B
CL	Legal Professionals	1B, 5F
CM	Medical Professionals	6A, 6C, 6E, 6F, 6H
CS	Social/Behavioral Science Professionals	5D, 5E
CU	Public Affairs Professionals	7F, 7G
CZ	Miscellaneous Professionals	2G, 4A, 5A, 5D, 5G, 5H, 5M, 5N, 7A, 7G, 7L
EF	Financial Managers and Administrators	1B, 7A, 7D, 8E
EI	Intelligence Managers and Administrators	1B, 3A, 3B, 3C, 7F, 7H
EM	Medical Managers and Administrators	1B, 2G, 5A, 6A, 6C, 6E, 7M
EP	Personnel Managers and Administrators	5M, 7C
ET	Telecommunications Managers and Administrators ..	2G, 4C
EV	Research and Development Managers and Administrators	1B, 2F, 4B, 4D, 4E, 4F, 4H, 4N, 5A, 5B, 5L, 6A, 6C, 6F, 7A
EW	Logistics Managers and Administrators	1B, 2G, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4L, 4N, 7A, 7E, 7N, 8A, 8B, 8C, 8D, 8E, 8G
EY	General Managers and Administrators	1A, 1B, 2G, 3A, 4A, 5C, 5D, 7A, 7C, 7D, 7E, 7H, 8G
GA	Scientific Technical Personnel	321, 420, 491, 496; 5B, 6G
GC	Engineering Technical Personnel	411, 412, 413, 491, 496, 710; 4M, 4N, 5N
GE	Education Technical Personnel	012, 562, 570; 2A, 5K, 7B
GF	Financial Technical Personnel	541
GG	Air Traffic Control Technical Personnel	222; 2G
GI	Intelligence Technical Personnel	210, 230, 231, 232, 233, 241, 242, 243, 244, 260; 3A, 3B, 3C
GK	ADP Programmers/Data Analysts	531, 532; 5J, 7A, 7E
GL	Legal Technical Personnel	512; 5F
GM	Medical Technical Personnel	300, 301, 302, 303, 304, 311, 312, 313, 322, 330, 331; 6H
GN	Target Acquisition/Combat Control Technical Personnel	011, 050, 104, 210, 221, 233, 241, 250, 510; 2G
GP	Personnel Management Technical Personnel	500, 501, 510; 7C
GQ	Aircraft Crews	050, 051, 210, 553, 647; 1B, 2A, 2B, 2C, 2D, 2G, 2H, 4D, 9E
GT	Telecommunications Technical Personnel	101, 160, 201, 202, 203, 260; 4C
GU	Public Affairs/Audiovisual Technical Personnel	400, 510, 570
GW	Logistics Management Technical Personnel	510, 531, 551, 553, 555, 557, 558, 600, 690, 822; 4A, 4B, 4C, 4D, 4E, 4F, 4L, 4N, 8B
GY	General Management Technical Personnel	243, 500, 510, 521, 558; 7A, 8G
GZ	Miscellaneous Technical Personnel	414, 431, 433, 491, 494, 496, 510, 562; 4E, 4N
JF	Financial Clerks	520, 541, 542
JK	ADP Equipment Operators	531
JL	Legal Clerks	510, 512
JM	Medical Clerks	513
JP	Personnel Clerks	500, 520
JS	Secretaries	510, 511
JW	Logistics Clerks	551, 552, 553, 555, 801, 822, 823
JY	General and Miscellaneous Clerks	510, 520, 541, 553, 801
MD	Food Service Personnel	800, 801; 8E
MG	Personal Service Personnel	492, 553, 561, 562, 800, 801, 823, 840; 7N, 8E, 8F, 8G
ML	Law Enforcement/Investigative Personnel	070, 510, 811, 830, 831, 832; 7H
MS	Fire Protection and Safety Service Personnel	493, 495; 4J
MX	Ceremonial Activities Service Personnel	450, 830; 7N

Italicized letters are defined in introductory material.

OCCUPATIONAL CONVERSION MANUAL

		Applicable DoD Occ. Codes (Enlisted Precede Officer)
IDOS	Title	
PA	Machinists and Metal Workers	690, 700, 701, 702, 703, 704, 711, 712, 760, 790
PB	Electricians.....	602, 610, 621, 622, 623, 647, 652, 662, 690, 710, 721
PC	Construction Crafts	030, 710, 712, 720, 850
PH	Vehicle Repair	610, 611, 612, 690, 704
PJ	Electronic Equipment Repair	100, 101, 102, 103, 104, 111, 112, 113, 121, 122, 130, 140, 150, 160, 191, 193, 198, 600, 602, 661
PK	ADP Repair	102, 104, 121, 150, 198
PN	Precision Equipment Repair.....	102, 121, 198, 602, 670
PO	Ordnance Mechanics.....	104, 113, 121, 123, 140, 496, 631, 632, 633, 640, 641, 642, 643, 644, 645, 646, 647
PQ	Aircraft Repair.....	600, 601, 602, 603, 646
PR	Marine Equipment Repair.....	651, 652, 661, 690, 720, 790, 850
PS	Miscellaneous Equipment Repair	121, 191, 198, 450, 602, 610, 633, 662, 670, 690, 702, 710, 712, 720, 721, 760, 790
PU	Printing and Publishing	740
PZ	Miscellaneous Production Workers.....	496, 670, 712, 720, 750, 760, 790, 850
RC	Construction Equipment Operators.....	710, 713
RH	Vehicle Operations.....	020, 811, 812
RQ	Airfield Operations.....	556, 600, 602, 604, 850
RR	Ship/Boat Operations.....	011, 060, 061, 062, 063, 495, 651, 652, 720; 2E, 4H, 4N, 8C
RW	Materiel Handlers	060, 491, 510, 551, 554, 713, 821, 822, 840, 850, 860, 870
RX	Installation Maintenance Workers.....	661, 662, 690, 710, 720, 760, 850, 870
RZ	Miscellaneous Operators and Laborers	104, 496, 652, 713, 720, 790, 800, 850, 870
TA	Infantry.....	010, 431, 433; 2E
TB	Armor/Amphibious Personnel	020, 250; 2E
TC	Combat Engineering	030; 2E
TD	Artillery, Gunnery and Missile Personnel.....	041, 042, 043, 050, 104, 121; 2E, 2F, 2G
TZ	Combat Operations Planning.....	243, 494; 1A, 1B, 2E, 2G, 3A, 4J, 4K, 8C
WE	Trainees.....	661, 911, 912, 950; 9B, 9E
WZ	Miscellaneous Personnel	901, 902, 920; 9A, 9E

APPENDIX D
FIPS STATE CODES

APPENDIX D

FIPS STATE CODES

This appendix provides the Federal Information Processing Standards (FIPS) State Codes used in the 1980 Census.¹

State and State Group Codes (Revised July 1983)

<u>FIPS STATE CODE</u>	<u>FIPS STATE CODE</u>	<u>FIPS STATE CODE</u>
01 Alabamat	21 Kentucky†	38 North Dakota*†
02 Alaska*	22 Louisiana	39 Ohio†
04 Arizona*	23 Maine*†	40 Oklahomat
05 Arkansas†	24 Maryland*†	41 Oregon
06 California	25 Massachusetts*†	42 Pennsylvaniat
08 Colorado	26 Michigan	44 Rhode Island*†
09 Connecticut†	27 Minnesota*†	45 South Carolina
10 Delaware*	28 Mississippi†	46 South Dakota*
11 District of Columbia	29 Missouri*	47 Tennessee†
12 Florida	30 Montana*†	48 Texas†
13 Georgiat	31 Nebraska*†	49 Utah*
15 Hawaii*	32 Nevada*	50 Vermont
16 Idaho*	33 New Hampshire*†	51 Virginiat
17 Illinois†	34 New Jersey†	53 Washington
18 Indianat	35 New Mexico*†	54 West Virginiat
19 Iowa*†	36 New York†	55 Wisconsin†
20 Kansas*	37 North Carolinat	56 Wyoming*†

State Group Codes Applicable to the C Sample Only

51	Maine-New Hampshire-Vermont
62	Massachusetts-Rhode Island
63	Minnesota-Iowa-Missouri-Kansas-Nebraska-South Dakota-North Dakota
64	Maryland-Delaware
65	Montana-Idaho-Wyoming
66	Utah-Nevada
67	Arizona-New Mexico
68	Alaska-Hawaii

† State identified only in part on the B Sample. For areas with suppressed State code, see Appendix C.

*Not separately identified on the C Sample.

1. SOURCE: U.S. Department of Commerce, Bureau of the Census, 1980 Census of Population and Housing, *Technical Documentation*, 1983.

APPENDIX E
MILITARY OCCUPATIONAL SPECIALTY CODES

APPENDIX E

MILITARY OCCUPATIONAL SPECIALTY CODES

This appendix details the Military Occupational Speciality (MOS) codes.¹

1. SOURCE: Department of Defense, Office of the Assistant Secretary of Defense, Manpower, Reserve Affairs, and Logistics, *Occupational Conversion Manual* (Alexandria, VA: Defense Manpower Data Center (DMDC), December 1982).

ARMY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
00B	Diver	433	GZ
00D	Special Duty Assignment	920	WZ
00E	Recruiter	501	GP
00J	Club Manager	800	MG
00U	Equal Opportunity Specialist	500	GP
00Z	Command Sergeant Major	521	GY
01H	Biological Sciences Assistant	496	GA
02B	Cornet or Trumpet Player	450	MX
02C	Baritone or Euphonium Player	450	MX
02D	French Horn Player	450	MX
02E	Trombone Player	450	MX
02F	Tuba Player	450	MX
02G	Flute or Piccolo Player	450	MX
02H	Oboe Player	450	MX
02J	Clarinet Player	450	MX
02K	Bassoon Player	450	MX
02L	Saxophone Player	450	MX
02M	Percussion Player	450	MX
02N	Piano Player	450	MX
02P	Brass Group Leader	450	MX
02Q	Woodwind Group Leader	450	MX
02R	Percussion Group Leader	450	MX
02S	Special Bandperson	450	MX
02T	Guitar Player	450	MX
02Z	Enlisted Bandleader	450	MX
03C	Physical Activities Specialist	562	MG
05B	Radio Operator	201	GT
05C	Radio Teletype Operator	201	GT
05D	EW/SIGINT Emitter Identifier/Locator	231	GI
05G	Signal Security Specialist	231	GI
05H	EW/SIGINT Morse Interceptor	231	GI
05K	EW/SIGINT Non-Morse Interceptor	231	GI
09D	College Trainee	912	WE
09S	Commissioned Officer Candidate	911	WE
09T	ARNG State OCS Candidate (Reserve Forces)	911	WE
09W	Warrant Officer Candidate	911	WE
11B	Infantryman	010	TA
11C	Indirect Fire Infantryman	010	TA
11H	Heavy Antiarmor Weapons Crewman	010	TA
11M	Fighting Vehicle Infantryman	010	TA
12B	Combat Engineer	030	TC
12C	Bridge Crewman	030	TC
12E	Atomic Demolition Munitions Specialist	030	TC
12F	Engineer Tracked Vehicle Crewman	030	TC
12Z	Combat Engineering Senior Sergeant	030	TC
13B	Cannon Crewman	041	TD
13C	Tacfire Operations Specialist	250	GN
13E	Cannon Fire Direction Specialist	250	GN
13F	Fire Support Specialist	250	GN
13M	Multiple Launch Rocket System (MLRS) Crewmember	042	TD
13R	Firefinder Radar Operator	221	GN

Italicized letters are defined in introductory material.

252 OCCUPATIONAL CONVERSION MANUAL

ARMY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
13W	Field Artillery Target Acquisition Senior Sergeant	250	GN
13Y	Cannon/Missile Senior Sergeant	041	TD
13Z	Field Artillery Senior Sergeant	041	TD
15D	LANCE Crewmember/MLRS Sergeant	042	TD
15E	Pershing Missile Crew Member	043	TD
15J	MLRS/LANCE Operational/Fire Direction Specialist	043	TD
16B	Hercules Missile Crew Member	043	TD
16C	Hercules Fire Control Crewman	043	TD
16D	Hawk Missile Crew Member	043	TD
16E	Hawk Fire Control Crew Member	043	TD
16F	Light Air Defense Artillery Crewman (Reserve Forces)	043	TD
16G	ROLAND Crewmember	043	TD
16H	Air Defense Artillery Operations & Intelligence Assistant	250	GN
16J	Defense Acquisition Radar Crewman	221	GN
16P	Air Defense Artillery Short Range Missile Crewman	043	TD
16R	Air Defense Artillery Short Range Gunnery Crewman	041	TD
16S	MANPADS (Man Portable Air Defense System) Crewman	043	TD
16T	Patriot Missile Crewmember	043	TD
16Z	Air Defense Artillery Senior Sergeant	043	TD
17B	Field Artillery Radar Crew Member	221	GN
17C	Field Artillery Target Acquisition Specialist	241	GN
17K	Ground Surveillance Radar Crewman	221	GN
17L	Aerial Sensor Specialist (Reserve Forces)	233	GN
17M	Unattended Ground Sensor Specialist	221	GN
19D	Cavalry Scout	250	TB
19E	M48-M60 Armor Crewman	020	TB
19K	M1 ABRAMS Crewman	020	TB
19Z	Armor Senior Sergeant	020	TB
21G	Pershing Electronics Materiel Specialist	121	PJ
21L	Pershing Electronics Repairer	121	PJ
22L	Nike Test Equipment Repairer	121	PJ
22N	Nike-Hercules Missile-Launcher Repairer	121	PS
23N	Nike Track Radar Repairer	104	PJ
23U	Nike High Power Radar-Simulator Repairer	104	PJ
23W	Nike Maintenance Chief	104	PO
24C	Improved Hawk Firing Section Mechanic	121	PJ
24E	Improved Hawk Fire Control Mechanic	121	PJ
24G	Improved Hawk Information Coordination Central Mechanic	104	PJ
24H	Improved Hawk Fire Control Repairer	104	PJ
24J	Improved Hawk Pulse Radar Repairer	104	PJ
24K	Improved Hawk Continuous Wave Radar Repairer	104	PJ
24L	Improved Hawk Launcher/Mechanical Systems Repairer	121	PS
24M	Vulcan System Mechanic	121	PJ
24N	Chaparral System Mechanic	121	PJ
24P	Defense Acquisition Radar Mechanic	104	PJ
24Q	Nike-Hercules Fire Control Mechanic	121	PJ
24R	Improved Hawk Master Mechanic	121	PO
24S	ROLAND Mechanic	121	PJ
24T	Patriot System Mechanic	632	PO
24U	Hercules Electronics Mechanic	121	PJ
24V	Improved Hawk Maintenance Chief	121	PO

Italicized letters are defined in introductory material.

ARMY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
25J	Operations Central Repairer	150	PK
25L	AN/TSQ-73 ADA Command & Control System Operator/Repairer	150	PK
26B	Weapons Support Radar Repairer	104	PJ
26C	Combat Area Surveillance Radar Repairer	104	PJ
26D	Ground Control Approach Radar Repairer	104	PJ
26E	Aerial Surveillance Sensor Repairer	104	PJ
26F	Aerial Photoactive Sensor Repairer	198	PJ
26H	Air Defense Radar Repairer	104	PJ
26K	Aerial Electronic Warning Defense Equipment Repairer	104	PJ
26L	Tactical Microwave Systems Repairer	101	PJ
26M	Aerial Surveillance Radar Repairer (Reserve Forces)	104	PJ
26N	Aerial Surveillance Infrared Repairer (Reserve Forces)	104	PJ
26Q	Tactical Satellite/Microwave Systems Operator	201	GT
26R	Strategic Microwave Systems Operator	201	GT
26T	Radio/Television Systems Specialist	570	GU
26V	Strategic Microwave Systems Repairer	101	PJ
26Y	SATCOM Equipment Repairer	102	PJ
27B	Land Combat Support System Test Specialist/LANCE Repairer	121	PO
27C	• ROLAND Repairer	121	PJ
27D	• ROLAND Fmts Repairer	122	PJ
27E	TOW/Dragon Repairer	121	PO
27F	Vulcan Repairer	121	PO
27G	Chaparral/Redeye Repairer	121	PO
27H	Shillelagh Repairer	121	PO
27M	MLRS Repairer	611	PH
27N	Forward Area Alerting Radar (FAAR) Repairer	104	PJ
27Z	Ballistic/Land Combat/Light Air Defense Systems Maintenance Chief	121	PO
31E	Field Radio Repairer	101	PJ
31J	Teletypewriter	160	GT
31M	Multichannel Communications Equipment Operator	202	GT
31N	Tactical Circuit Controller	202	GT
31S	Field General Comsec Repairer	160	PJ
31T	Field Systems Comsec Repairer	160	PJ
31V	Tactical Communications Systems Operator/Mechanic	101	PJ
31Z	Communications-Electronics Operations Chief	260	GT
32D	Station Technical Controller	101	GT
32F	Fixed Ciphony Repairer	160	PJ
32G	Fixed Cryptographic Equipment Repairer	160	PJ
32H	Fixed Station Radio Repairer	101	PJ
32Z	Communications-Electronics Maintenance Chief	101	PJ
33S	EW/Intercept Systems Repairer	102	PJ
34B	Card Punch Machine Repairer	150	PK
34C	Decentralized Auto Support Systems (DAS3) Computer Repairer	150	PK
34E	NCR 500 Computer Repairer	150	PK
34F	DSTE Repairer	150	PK
34H	ADMSE Repairer	150	PK
34J	Univac 1004/1005 DCT 9000 System Repairer	150	PK
34K	IBM 360 Repairer	150	PK
34Y	FA Computer Repairer	113	PJ
34Z	ADP Maintenance Supervisor	150	PK
35B	Electronic Instrument Repairer	198	PJ

Italicized letters are defined in introductory material.

254 OCCUPATIONAL CONVERSION MANUAL

ARMY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
35C	Automatic Test Equipment Repairer	198	PJ
35E	Special Electrical Devices Repairer	198	PJ
35F	Nuclear Weapons Electronics Specialist	140	PJ
35G	Biomedical Equipment Specialist, Basic	198	PS
35H	Calibration Specialist	198	PN
35K	Avionic Mechanic	102	PJ
35L	Avionic Communications Equipment Repairer	102	PJ
35M	Avionic Navigation & Flight Control Equipment Repairer	102	PJ
35P	Avionic Equipment Maintenance Supervisor	102	PJ
35R	Avionic Special Equipment Repairer	102	PN
35U	Biomedical Equipment Specialist, Advanced	198	PS
36C	Wire Systems Installer/Operator	621	PB
36D	Antenna Installer Specialist	621	PB
36E	Cable Splicer	621	PB
36H	Dial/Manual Central Office Repairer	622	PB
36K	Tactical Wire Operations Specialist	621	PB
36L	Electronics Switching Systems Repairer	622	PB
41B	Topographic Instrument Repair Specialist	670	PN
41C	FC Instrument Repairer	670	PN
41E	Audio-Visual Equipment Repairer	198	PS
41G	Aerial Surveillance Photo Equipment Repairer (Reserve Forces)	198	PN
41J	Office Machine Repairer	670	PS
42C	Orthotic Specialist	304	GM
42D	Dental Laboratory Specialist	331	GM
42E	Optical Laboratory Specialist	311	GM
43E	Parachute Rigger	860	RW
43M	Fabric Repair Specialist	760	PZ
44B	Metal Worker	704	PA
44E	Machinist	702	PA
45B	Small Arms Repairer	641	PO
45D	• Self-Propelled Field Artillery Turret Mechanic	643	PO
45E	• M1 ABRAMS Tank Turret Mechanic	643	PO
45G	Fire Control Systems Repairer	113	PJ
45K	Tank Turret Repairer	643	PO
45L	Artillery Repairer	642	PO
45N	• M60A1/A3 Tank Turret Mechanic	643	PO
45T	• ITV/IFV/CFV Turret Mechanic	643	PO
45Z	Armament/Fire Control Maintenance Supervisor	640	PO
46N	Pershing Electrical-Mechanical Repairer	631	PO
51B	Carpentry & Masonry Specialist	712	PC
51C	Structures Specialist	710	PC
51G	Materials Quality Specialist	491	GC
51H	Construction Engineering Supervisor	710	PC
51K	Plumber	720	PC
51M	Fire Fighter	495	MS
51N	Water Treatment & Plumbing Systems Specialist	720	PC
51R	Interior Electrician	721	PB
51T	Technical Engineering Supervisor	413	GC
51Z	General Engineering Supervisor	710	PC
52C	Utilities Equipment Repairer	662	PB
52D	Power Generation Equipment Repairer	662	PB

Italicized letters are defined in introductory material.

ARMY ENLISTED

Service Occ.	Title
52E	Prime Power Production Specialist
52G	Transmission & Distribution Specialist
53B	Industrial Gas Production Specialist (Reserve Forces)
54C	Smoke Operations Specialist
54E	NBC Specialist
54Z	Chemical Senior Sergeant
55B	Ammunition Specialist
55D	Explosive Ordnance Disposal Specialist
55G	Nuclear Weapons Maintenance Specialist
55R	Ammunition Stock Control & Accounting Specialist
55X	Ammunition Inspector
55Z	Ammunition Supervisor
57E	Laundry & Bath Specialist
57F	Graves Registration Specialist
57H	Terminal Operations Coordinator
61B	Watercraft Operator
61C	Watercraft Engineer
61F	Marine Hull Repairer
61Z	Marine Senior Sergeant
62B	Construction Equipment Repairer
62E	Heavy Construction Equipment Operator
62F	Lifting & Loading Equipment Operator
62G	Quarrying Specialist
62H	Concrete & Asphalt Equipment Operator
62J	General Construction Equipment Operator
62N	Construction Equipment Supervisor
63B	Light Wheel Vehicle/Power Generation Mechanic
63D	Self-Propelled Field Artillery System Mechanic
63E	M1 ABRAMS Tank Systems Mechanic
63G	Fuel & Electrical Systems Repairer
63H	Track Vehicle Repairer
63J	Quartermaster & Chemical Equipment Repairer
63N	M60A1/A3 Tank System Mechanic
63S	Heavy Wheel Vehicle Mechanic
63T	ITV/IFV/CFV System Mechanic
63W	Wheel Vehicle Repairer
63Y	Track Vehicle Mechanic
63Z	Mechanical Maintenance Supervisor
64C	Motor Transport Operator
64Z	Transportation Senior Sergeant
65B	Locomotive Repairer (Reserve Forces)
65D	Railway Car Repairer (Reserve Forces)
65E	Airbrake Repairer (Reserve Forces)
65F	Locomotive Electrician (Reserve Forces)
65G	Railway Section Repairer (Reserve Forces)
65H	Locomotive Operator (Reserve Forces)
65J	Train Crew Member (Reserve Forces)
65K	Railway Movement Coordinator (Reserve Forces)
65Z	Railway Senior Sergeant (Reserve Forces)
67G	Utility/Cargo Airplane Repairer
67H	Observation Airplane Repairer

DoD Occ.	IDOS
662	RX
721	PB
750	PZ
030	TC
494	TZ
494	TZ
645	PO
431	GZ
644	PO
551	GW
645	PO
645	PO
840	MG
492	MG
822	GW
062	RR
652	RR
704	PA
062	RR
612	PH
713	RC
713	RC
713	RC
713	RC
713	RC
713	RC
610	PH
611	PH
611	PH
610	PH
611	PH
690	PS
611	PH
610	PH
611	PH
610	PH
611	PH
610	PH
611	PH
611	PH
611	PH
690	PH
690	PH
690	PH
662	PB
850	PC
812	RH
812	RH
553	GW
812	RH
600	PQ
600	PQ

ARMY ENLISTED

Service Occ.	Title
67N	Utility Helicopter Repairer
67T	Tactical Transport Helicopter Repairer
67U	Medium Helicopter Repairer
67V	Observation/Scout Helicopter Repairer
67W	Aircraft Quality Control Supervisor
67X	Heavy Lift Helicopter Repairer
67Y	Attack Helicopter Repairer
67Z	Aircraft Maintenance Senior Sergeant
68B	Aircraft Powerplant Repairer
68D	Aircraft Powertrain Repairer
68F	Aircraft Electrician
68G	Aircraft Structural Repairer
68H	Aircraft Pneudraulics Repairer
68J	Aircraft Weapons System Repairer
68K	Aircraft Components Repair Supervisor
68M	Aircraft Fire Control Repairer
71C	Secretary
71D	Legal Clerk
71E	Court Reporter
71G	Patient Administration Specialist
71L	Administrative Specialist
71M	Chapel Activities Specialist
71N	Traffic Management Coordinator
71P	Flight Operations Coordinator
71Q	Journalist
71R	Broadcast Journalist
72E	Telecommunications Center Operator
72G	Data Communications Switching Center Specialist
72H	Central Office Operations Operator
73C	Finance Specialist
73D	Accounting Specialist
73Z	Finance Senior Sergeant
74B	Card & Tape Writer (Reserve Forces)
74D	Computer/Machine Operator
74F	Programmer/Analyst
74Z	Data Processing NCO
75B	Personnel Administration Specialist
75C	Personnel Management Specialist
75D	Personnel Records Specialist
75E	Personnel Actions Specialist
75F	Personnel Information Systems Management Specialist
75Z	Personnel Sergeant
76C	Equipment Records & Parts Specialist
76J	Medical Supply Specialist
76P	Material Control & Accounting Specialist
76V	Material Storage & Handling Specialist
76W	Petroleum Supply Specialist
76X	Subsistence Supply Specialist
76Y	Unit Supply Specialist
76Z	Senior Supply Sergeant
79D	Reenlistment NCO

DoD Occ.	IDOS
600	PQ
600	PQ
600	PQ
600	PQ
600	GW
600	PQ
600	PQ
600	PQ
601	PQ
602	PQ
602	PB
603	PQ
602	PQ
646	PQ
602	PQ
646	PQ
511	JS
512	JL
512	JL
513	JM
510	JY
561	MG
553	GW
556	RQ
570	GU
570	GU
260	GT
260	GT
260	GT
542	JF
541	GF
542	JF
531	JK
531	JK
532	GK
531	GK
500	JP
500	GP
500	JP
500	JP
500	GP
500	GP
551	JW
551	RW
551	JW
551	RW
821	RW
551	RW
552	JW
551	JW
501	GP

Italicized letters are defined in introductory material.

Italicized letters are defined in introductory material.

ARMY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
81B	Technical Drafting Specialist	413	GC
81C	Cartographer	411	GC
81E	Illustrator	414	GZ
81Z	Topographic Engineering Supervisor	412	GC
82B	Construction Surveyor	412	GC
82C	Field Artillery Surveyor	412	GC
82D	Topographic Surveyor	412	GC
83E	Photo & Layout Specialist	740	PU
83F	Photolithographer	740	PU
84B	Still Photographic Specialist	400	GU
84C	Motion Picture Specialist	400	GU
84F	Audio/Television Specialist	400	GU
84T	TV/Radio Broadcast Operations Chief	570	GU
84Z	Public Affairs/Audio-Visual Chief	570	GU
91B	Medical Specialist	300	GM
91C	Practical Nurse	300	GM
91D	Operating Room Specialist	301	GM
91E	Dental Specialist	330	GM
91F	Psychiatric Specialist	302	GM
91G	Behavioral Science Specialist	302	GM
91H	Orthopedic Specialist	304	GM
91J	Physical Therapy Specialist	303	GM
91L	Occupational Therapy Specialist	303	GM
91N	Cardiac Specialist	300	GM
91P	X-Ray Specialist	313	GM
91Q	Pharmacy Specialist	312	GM
91R	Veterinary Specialist	321	GA
91S	Environmental Health Specialist	322	GM
91T	Animal Specialist	321	GA
91U	Ear, Nose, & Throat (ENT) Specialist	300	GM
91V	Respiratory Specialist	300	GM
91W	Nuclear Medicine Specialist	311	GM
91Y	Eye Specialist	300	GM
92B	Medical Laboratory Specialist	311	GM
92C	Petroleum Laboratory Specialist	491	GA
92D	Chemical Laboratory Specialist	491	GA
92E	Cytology Specialist	311	GM
93E	Meteorological Observer	420	GA
93F	Field Artillery Meteorological Crew Member	420	GA
93H	Air Traffic Control Tower Operator	222	GG
93J	Air Traffic Control Radar Controller	222	GG
94B	Food Service Specialist	800	MD
94F	Hospital Food Service Specialist	800	MD
95B	Military Police	830	ML
95C	Correctional Specialist	831	ML
95D	Assistant Special Agent	832	ML
96B	Intelligence Analyst	243	GI
96C	Interrogator	241	GI
96D	Image Interpreter	242	GI
96H	Aerial Sensor Specialist (OV-1D)	233	GN
96Z	Intelligence Senior Sergeant	243	GI

Italicized letters are defined in introductory material.

258 OCCUPATIONAL CONVERSION MANUAL

ARMY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
97B	Counterintelligence Agent	244	GI
97C	Area Intelligence Specialist	244	GI
98C	EW/SIGINT Analyst	232	GI
98G	EW/SIGINT Voice Interceptor	231	GI
98J	EW/SIGINT Noncommunications Interceptor	233	GI
98Z	EW/SIGINT Chief	230	GI
XXX0X	Undergoing Training or MOS Reclassification	950	WE
XXXXH	Instructor-Any MOS With Suffix -H-	012	
XXXXM	First Sergeant-Any MOS With Suffix -M-	521	
XXXXS	Special Forces-Any MOS With Suffix -S-	011	

Italicized letters are defined in introductory material.

NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
AA	Airman Apprentice	950	WE
AB	Aviation Boatswain's Mate	604	RQ
ABE	Aviation Boatswain's Mate E (Launching & Recovery Equipment)	604	RQ
ABF	Aviation Boatswain's Mate F (Fuels)	604	RQ
ABH	Aviation Boatswain's Mate H (Aircraft Handling)	604	RQ
AC	Air Traffic Controller	222	GG
AD	Aviation Machinist's Mate	601	PQ
AE	Aviation Electrician's Mate	602	PB
AF	Aircraft Maintenanceman	600	PQ
AG	Aerographer's Mate	420	GA
AK	Aviation Storekeeper	551	JW
AM	Aviation Structural Mechanic	603	PQ
AME	Aviation Structural Mechanic E (Safety Equipment)	602	PQ
AMH	Aviation Structural Mechanic H (Hydraulics)	602	PQ
AMS	Aviation Structural Mechanic S (Structures)	603	PQ
AN	Airman	950	WE
AO	Aviation Ordnanceman	646	PO
AQ	Aviation Fire Control Technician	112	PJ
AR	Airman Recruit	950	WE
AS	Aviation Support Equipment Technician	602	PS
ASE	Aviation Support Equipment Technician E (Electrical)	602	PB
ASH	Aviation Support Equipment Technician H (Hydraulics & Structures)	602	PS
ASM	Aviation Support Equipment Technician M (Mechanical)	602	PS
AT	Aviation Electronics Technician	100	PJ
AV	Avionics Technician	100	PJ
AW	Aviation Antisubmarine Warfare Operator	210	GN
AX	Aviation Antisubmarine Warfare Technician	102	PJ
AZ	Aviation Maintenance Administrationman	555	GW
BM	Boatswain's Mate	060	RR
BT	Boiler Technician	651	RR
BU	Builder	710	PC
CA	Constructionman Apprentice	950	WE
CE	Construction Electrician	721	PB
CM	Construction Mechanic	612	PH
CN	Constructionman	950	WE
CR	Constructionman Recruit	950	WE
CTA	Cryptologic Technician Administrative	510	JY
CTI	Cryptologic Technician Interpretative	232	GI
CTM	Cryptologic Technician Maintenance	102	PJ
CTO	Cryptologic Technician Communications	260	GI
CTR	Cryptologic Technician Collection	231	GI
CTT	Cryptologic Technician Technical	231	GI
CU	Constructionman	710	PC
DA	Dentalman Apprentice	330	GM
DK	Disbursing Clerk	542	JF
DM	Illustrator Draftsman	414	GZ
DN	Dentalman	330	GM
DP	Data Processing Technician	531	JK
DR	Dentalman Recruit	950	WE
DS	Data Systems Technician	150	PK
DT	Dental Technician	330	GM

Italicized letters are defined in introductory material.

NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
EA	Engineering Aid	412	GC
EM	Electrician's Mate	662	PB
EN	Engineman	652	PR
EO	Equipment Operator	713	RC
EQ	Equipmentman	612	PH
ET	Electronics Technician	100	PJ
EW	Electronics Warfare Technician	230	GI
FA	Fireman Apprentice	950	WE
FN	Fireman	950	WE
FR	Fireman Recruit	950	WE
FT	Fire Control Technician	121	PJ
FTB	Fire Control Technician B (Ballistic Missile Fire Control)	121	PJ
FTG	Fire Control Technician G (Gunfire Control)	113	PJ
FTM	Fire Control Technician M (Surface Missile Fire Control)	121	PJ
GM	Gunner's Mate	633	PO
GMG	Gunner's Mate G (Guns)	041	TD
GMM	Gunner's Mate M (Missiles)	633	PO
GMT	Gunner's Mate T (Technician)	644	PO
GS	Gas Turbine System Technician	652	PR
GSE	Gas Turbine System Technician (Electrical)	652	PB
GSM	Gas Turbine System Technician (Mechanical)	652	PR
HA	Hospitalman Apprentice	300	GM
HM	Hospital Corpsman	300	GM
HN	Hospitalman	300	GM
HR	Hospitalman Recruit	950	WE
HT	Hull Maintenance Technician	790	PR
IC	Interior Communications Electrician	623	PB
IM	Instrumentman	670	PN
IS	Intelligence Specialist	242	GI
JO	Journalist	570	GU
LI	Lithographer	740	PU
LN	Legalman	512	JL
MA	Master-Air-Arms	830	ML
ML	Molder	790	PA
MM	Machinist's Mate	651	PR
MN	Mineman	647	PO
MR	Machinery Repairman	702	PS
MS	Mess Management Specialist	800	MD
MT	Missile Technician	121	PJ
MU	Musician	450	MX
NC	Navy Counselor	501	GP
OM	Opticalman	670	PN
OS	Operations Specialist	221	GN
OT	Ocean Systems Technician	210	GN
PC	Postal Clerk	554	RW
PH	Photographer's Mate	400	GU
PI	Precision Instrumentman	670	PN
PM	Patternmaker	790	PZ
PN	Personnelman	500	JP
PR	Aircrew Survival Equipmentman	860	RW
QM	Quartermaster	061	RR

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
RM	Radioman	201	GT
RP	Religious Program Specialist	561	MG
SA	Seaman Apprentice	950	WE
SH	Ship's Serviceman	823	MG
SK	Storekeeper	551	JW
SM	Signalman	203	GT
SN	Seaman	950	WE
SR	Seaman Recruit	950	WE
ST	• Sonar Technician	130	PJ
STG	• Sonar Technician G (Surface)	130	PJ
STS	• Sonar Technician S (Submarine)	130	PJ
SW	Steelworker	711	PA
TD	Tradesman	191	PJ
TM	Torpedoman's Mate	123	PO
UT	Utilitiesman	720	RX
YN	Yeoman	510	JY
BM 0107	Minesweeping Boatswain's Mate	060	RR
BM 0108	Non-Diving Salvage/Towing Operator	060	RR
BM 0114	Stevordore	060	RW
BM 0181	Tugmaster	062	RR
BM 0162	Yard Craft Boat Captain/Craftmaster	062	RR
BM 0163	Minesweeper Boat Captain	062	RR
BM 0164	Assault Boat Coxswain	062	RR
BM 0165	Landing Craft Utility Captain	062	RR
QM 0215	Harbor/Docking Pilot	061	RR
QM 0216	River/Docking Pilot	061	RR
OS 0301	• FFG-7 Class Subsystem Component Specialist	221	GN
OS 0312	OJ-194 Console Operator	221	GN
OS 0313-21	Radar Air Controllers	221	GN
OS 0331	ASWOC Operator	221	GN
OS 0341	Naval Warfare Operations Specialist	221	GN
ST 0402	• FFG-7 Class Sonar Subsystem Technician	130	PJ
ST 0408	• Underwater Object Locator (SQQ-14) Repairman & Operator	130	PJ
ST 0409	• Submarine Sonar (BOG Series) Technician	130	PJ
ST 0412	• BQQ-5/5 () Submarine Sonar Basic Maintenance Technician	130	PJ
ST 0416	• Acoustic Intelligence Specialist	210	GI
ST 0421	• Sub Special Purpose Acoustic Equipment Maintenance Technician	130	PJ
ST 0422	• BQQ-5/5 () Submarine Sonar Advanced Maintenance Technician	130	PJ
ST 0424	• SSN Integrated Submarine Sonar Systems Technician	130	PJ
ST 0426	• BQQ-6 Sonar Equipment Maintenance Technician	130	PJ
ST 0427	• Submarine Sonar System OA-1283 Maintenance Technician	130	PJ
ST 0428	• SSBN/Pre-594 Class SSN Sonar Technician	130	PJ
ST 0431-38	• Underwater Fire Control Technicians	130	PJ
ST 0440	• Sonar Supervisor	130	PJ
ST 0445	• Surface Acoustic Analyst	130	PJ
ST 0446	• Acoustic Processor (SQS-54) Technician	130	PJ
ST 0447	• Acoustic Processor (SQR-17) Technician	130	PJ
ST 0449	• SQR-18 Sonar System Maintenance Technician	130	PJ
ST 0451-59	• Surface Sonar Technicians	130	PJ
ST 0473-92	• Surface Sonar/ASW Fire Control Systems Technicians	130	PJ
OT 0611	Improved SOSUS Operator/Analyst	210	GN

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
OT 0612	SOSUS Operator/Analyst	210	GN
OT 0613	• TASS Operator/Analyst	210	GN
OT 0614	• SURTASS Operator/Analyst	210	GN
OT 0621	IUSS Advanced Acoustic Analyst/Watch Supervisor Coordinator	210	GN
OT 0622	Ocean Systems Maintenance Technician	130	PJ
OT 0623	• TASS Maintenance Technician	130	PJ
OT 0624	• SURTASS Maintenance Technician	130	PJ
OT 0625	SOSUS ADP Maintenance Technician	130	PJ
OT 0626	Ocean Systems Electronic Maintenance Technician	130	PJ
OT 0627	Searchlight Surveillance Maintenance Technician	130	PJ
OT 0628	Synchronous Distribution Processor II Maintenance Technician	130	PJ
OT 0631	IUSS Advanced Technician	210	GN
TM 0718	ASROC Missile Assemblyman	121	PO
TM 0719	SUBROC Missile Technician	121	PO
TM 0721	SUBROC Missile Assemblyman	121	PO
TM 0737-49	Advanced Undersea Weaponsmen	123	PO
TM 0771	Nuclear Depth Bomb Technician	644	PO
GM 0811	Small Arms Marksmanship Instructor	012	GE
GM 0871-78	Naval Guns Maintencemen	041	TD
GM 0891	ASROC Launching Group (MK-16) Maintenanceman	121	PJ
GM 0892	Basic Point Defense SMS Maintenanceman	121	PJ
GM 0893	DD-963 ASROC Launching Gp MK-16/ASROC Wpn Handling Sys Mntm	121	PJ
GM 0928	Warhead Maintenance Specialist	644	PO
GM 0988-93	• Guided Missile Launching System & Missile Maintenance Technicians	121	PJ
FT 1102	• MK 92 Fire Control System Technician	121	PJ
FT 1103	• FFG-7 Class Fire Control Subsystem Component Technician	121	PJ
FT 1104	• FFG-7 Class Missile Fire Control Subsystem Technician	121	PJ
FT 1105	• SPG-55B (Track) Radar Technician	104	PJ
FT 1106-07	• Aegis Weapons Systems Technicians	113	PJ
FT 1108	• Aegis Weapon System MK-7 Technician	113	PJ
FT 1109	• Terrier Missile Fire Control Sys (MK 76 Mods 6, 7, 8) Technician	121	PJ
FT 1111	• Harpoon Weapon System Maintenance Technician	113	PO
FT 1112	• TOMAHAWK Weapon System (Surface) Technician	113	PJ
FT 1113-15	• Weapons Direction Systems Technicians	121	PJ
FT 1120	• Terrier Missile Fire Control System MK 76 Mod 9 Technician	121	PJ
FT 1121	• Communications Tracking Set SYR-1 Technician	121	PJ
FT 1123-30	Automatic Gunfire Control Systems Technicians	113	PJ
FT 1131-33	GFCS (MK 68) Technicians	113	PJ
FT 1135-42	• Search Radar Technicians	104	PJ
FT 1146	• Basic Point Defense SMS Technician	121	PJ
FT 1147	• Improved Point Defense System Technician	121	PJ
FT 1148	• Improved Pt Def Gd Miss Fire Control Sys (MK 91 Mod 0) Technician	121	PJ
FT 1149	• IPD/TAS MK 23 Technician	121	PJ
FT 1150	GFCS MK68 Mod 16 System Technician/Supervisor	113	PJ
FT 1151	GFCS MK68 Mod 16/MK160 Mod 1 Gun Computing System Technician	113	PJ
FT 1152	Destroyer Gunfire Control Systems GFCS MK-56 & MK-68 Technician	113	PJ
FT 1153-54	• Missile Weapons Control Systems Technicians	121	PJ
FT 1162-69	• Fire Control Radar Technicians	104	PJ
FT 1181	• Underwater Fire Control System (MK 117 Mods 0, 1, 2, 3) Tech.	113	PJ
FT 1183-89	• Fire Control Computer Technicians	150	PK
FT 1191	• Trident Defensive Weapons Subsys/Cmd Subsys Op/Maintenance Tech.	113	PJ

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
FT 1192-97	Underwater Fire Control Systems Technicians	113	PJ
MN 1201	Mine Test Set Maintenance	647	PO
MN 1202	Captor (MK 60 Mod 0) Weapons System Technician	647	PO
ET 1403	Communications Equipment (FRT-83/84/85) Technician	101	PJ
ET 1411	Digital Subscriber, Terminal Equipment Maintenance Technician	101	PJ
ET 1412	Special Fixed Communications Maintenance Technician	101	PJ
ET 1413	Meteorological/Oceanographic Equipment Maintenance Technician	101	PJ
ET 1414	Communications Equipment (VLF/LF) Technician	101	PJ
ET 1415	Shore Communications Maintenance Technician	101	PJ
ET 1417	ASCOMM/ASWOG Communications System Technician	101	PJ
ET 1420	Communications Equipment (URT-23(V)) Technician	101	PJ
ET 1421	Communications Equipment (WRT-2) Technician	101	PJ
ET 1422	Communications Equipment (UCC-1) Technician	101	PJ
ET 1423	Communications Equipment (SRC-20/21 & URC-9) UHF Technician	101	PJ
ET 1425	Communications Equipment (WSC-3) Technician	101	PJ
ET 1426	Comm Equipment (Tactical Data Systems SRC-16/17/23/31) Technician	101	PJ
ET 1427	Comm Equipment (Tactical Data Sys) Technician (SRC-16/23, URC 85)	101	PJ
ET 1428	FFG-7 Class Communications Electronics Subsystem Technician	101	PJ
ET 1431-48	Communication Security Devices Equipment Technicians	160	PJ
ET 1449	NBST Equipment Technician	160	PJ
ET 1451	SMO-10/TMO-29 Technician	102	PJ
ET 1452	NAVMACS (V)3 Shipboard Maintenance Technician	102	PJ
ET 1453	FLTSATCOM (NAVMACS (V)2) Shipboard Maintenance Technician	102	PJ
ET 1454	DD-963 Communications Systems Technician	101	PJ
ET 1456	FLTSATCOM (CUDIXS-NAVCOMMSTA) Maintenance Technician	102	PJ
ET 1458	VERDIN/ISABPS Communications System Technician	101	PJ
ET 1461	Special Maintenance (FSC-78/79 SHF Satellite Terminal) Technician	102	PJ
ET 1462	Special Maintenance (MSC-46 Satellite Communications) Technician	102	PJ
ET 1463	Special Maintenance (TSC-54 Satellite Communications) Technician	102	PJ
ET 1466	Special Maintenance (SSC-6 Major Ship SHF SATCOM Terminal) Tech.	102	PJ
ET 1469	Electrically Suspended Gyro Navigator (ESGN) Technician	102	PJ
ET 1470	Navigation Equipment (SRN-9/SRN-18) Technician	102	PJ
ET 1472	Tactical Air Navigation (SRN-6/URN-3/GRN-9) Technician	102	PJ
ET 1473	Tactical Air Navigation (URN-20) Technician	102	PJ
ET 1474	Inertial Navigation (MK II/Mod 1 Sins (N7B)) Technician	193	PJ
ET 1475	Inertial Navigation (MK III/Mod 4 Sins) Technician	193	PJ
ET 1476	Inertial Navigation (MK III/Mod 6 Sins) Technician	193	PJ
ET 1477	Inertial Navigation (SNAIAS) Technician	193	PJ
ET 1478	Dual Miniaturized Inertial Navigation System (DMINS) Technician	193	PJ
ET 1481-85	Special Applications Electronic Maintenance Technicians	102	PJ
ET 1491	FFG-7 Class Navigation Electronics Subsystem Technician	102	PJ
ET 1502	Radar (SPN-41, 43, 44) Technician	103	PJ
ET 1503	Radar (SPS-49) Technician	104	PJ
ET 1504	Radar (SPS-55) Technician	104	PJ
ET 1505	Radar (SPS-29C) Technician	104	PJ
ET 1506	Radar (SPS-29E) Technician	104	PJ
ET 1509	Radar (SPS-65(V)1) Technician	104	PJ
ET 1512	Radar Systems (SPS-37A & SPS-43A) Technician	104	PJ
ET 1516	Radar (SPS-40B/C/D) Technician	104	PJ
ET 1522	Radar (SPN-42) Technician	103	PJ
ET 1523	Radar (SPN-35/35A) Technician	103	PJ

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
ET 1572	AIMS System Technician	102	PJ
ET 1573	AIMS (TSEC/Crypto) Technician	160	PJ
ET 1574	DAIR/GCA (TPX-42) Maintenance Technician	102	PJ
ET 1576	CATCC DAIR/GCA Maintenance Technician	103	PJ
ET 1577	Ground Controlled Approach (CPN-4A or MPN-5) Technician	103	PJ
ET 1578	PIDP/GCA Maintenance Technician	103	PJ
ET 1579	FPN-63 Precision Approach Radar Technician	103	PJ
ET 1580	ASR-8 Maintenance Technician	103	PJ
ET 1588	Electronics Standards Specialist	198	PJ
DS 1615-23	Tactical Data Systems Technicians	150	PK
DS 1634-37	OPCON Systems Technicians	150	PK
DS 1638	Trident Sub Command & Control Systems (CCS) Op. & Maint. Tech.	150	PK
DS 1645	FLTSATCOM (SSIXS/ISABPS) OPCCONCEN Maintenance Technician	102	PJ
DS 1653	NIPS Maintenance Technician	150	PK
DS 1655	CV-ASWM Data Systems Technician	150	PK
DS 1665	UYA-4 Data Display Equipment Maintenance Technician	150	PK
DS 1666	UYK-5(V) Computer System Maintenance Technician	150	PK
DS 1667	UYK-7 Computer & Associated Peripheral Technician	150	PK
DS 1668	USQ-20(V) Peripheral & Conversion Eqpt. Maintenance Technician	150	PK
DS 1671	FFG-7 Class Computer/Peripheral Technician	150	PK
DS 1672	DD-963 Class Computer/Peripheral Technician	150	PK
DS 1673	LHA Class Computer & Associated Subsystems Technician	150	PK
DS 1674	LHA Integrated Tac. Amphib. Warf. Data Systems Maintenance Tech.	150	PK
DS 1681	FFG-7 Class Display Equipment Maintenance Technician	150	PK
DS 1682	DD-963 Class Display Equipment Maintenance Technician	150	PK
DS 1683	CGN-38 Class Display Equipment Maintenance Technician	150	PK
EW 1731-81	Electronics Warfare Systems Technicians	233	GI
IM 1812	Watch & Clock Instrumentman	670	PN
IM 1821	Precision Physical Measuring Specialist	670	PN
OM 1903	Optical Repairman (Submarine Periscopes)	670	PN
OM 1918	Type 18 Submarine Periscope Optical Repairman	670	PN
PC 2211	Area Mail Router	554	RW
RM 2301	Enlisted Frequency Manager	201	GT
RM 2304	Intermediate Radio Operator	201	GT
RM 2305	DCS Satellite Communications Term. Oper. (MSC-46 and/or TSC-54)	202	GT
RM 2313	Communications System Manager	201	GT
RM 2314	Cryptographic Machines Repairman	160	PJ
RM 2318	Communications System Technical Control Operator	201	GT
RM 2319	Communications System Technical Control Supervisor	201	GT
RM 2332	Submarine Radioman Crypto Technician	160	PJ
RM 2333	Radio Equipment (Submarine) Maintenance	101	PJ
RM 2335	Trident Sub Integrated Radio Room (IRR) Operation & Maint. Tech.	101	PJ
RM 2342-45	Teletype Repairman	160	PJ
RM 2346	Low-Level Keying Teletype Repairman	160	PJ
RM 2347	Submarine Digital Communications Equipment Technician	101	PJ
RM 2348	Radio Receiving Set WRR-7 (VERDIN) Technician	101	PJ
RM 2353	FLTSATCOM (SSIXS)/Radio Equipment (Submarine) Maintenance	101	PJ
RM 2354	FLTSATCOM (SSIXS-OPCCONCEN) Operator	260	GT
RM 2355	FLTSATCOM (CUDIXS) NAVCOMMSTA Operator	260	GT
RM 2359	ASCOMM Operator	202	GT
RM 2361	SATCOM Operator (MSC-46, TSC-54, FSC-78, FSC-79, & DCSS)	260	GT

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
RM 2371	Automated Communications System Operator	260	GT
RM 2372	Automated Communications Systems Computer Console Operator	260	GT
RM 2374	LHA Automated Communications System Operator	202	GT
RM 2393	Special Fixed Communication System Operator	201	GT
YN 2511	Court Reporter	512	JL
YN 2512	Staff Writer	511	JS
YN 2514	Flag Officer Writer	511	JS
YN 2516	Legal Clerk	512	JL
YN 2526	Personnel Administrationman	500	JP
PN 2612	Classification Interviewer	500	JP
DP 2703	Computer System Operator (WWMCCS)	531	JK
DP 2704	LHA Computer System Operator	531	JK
DP 2706	ASWOC Data Processing Technician	531	GK
DP 2707	NCCS ADP Operator	531	JK
DP 2711	Computer Systems Operation Supervisor	531	JK
DP 2734	NIPS Storage & Retrieval Operator & Data Base Manager	532	GK
DP 2741	Computer Programmer (Assembler Language)	532	GK
DP 2742	Computer Programmer (COBOL)	532	GK
DP 2743	Computer Programmer (FORTRAN)	532	GK
DP 2744	System Programmer (IBM 360 Series Computer System)	532	GK
DP 2745	System Software Programmer (WWMCCS)	532	GK
DP 2746	System Programmer (LDMX/NAVCOMMPARS)	532	GK
DP 2747	Application Programmer (WWMCCS)	532	GK
DP 2750	Computer System Specialist (Mini-Computer System)	532	GK
DP 2751	System Analyst	531	GK
DP 2752	Application System Analyst (WWMCCS)	531	GK
DP 2753	NWSS System Support Analyst (WWMCCS)	531	GK
DP 2759	CV-ASWM Data Processing Technician	531	GK
SK 2815	Independent Duty Storekeeper	551	JW
SK 2816	Supply & Accounting (Non-Mechanized) Analyst	551	GW
SK 2817	Supply & Accounting (Carriers/Assault Ships) Analyst	551	GW
SK 2818	Supply & Accounting (NSA Class 207) Analyst	551	GW
SK 2819	Personal Property Specialist	551	RW
SK 2821	Air Transportation Specialist	553	GW
SH 3111	Navy Exchange Manager	823	MG
SH 3112	Alloat Sales & Service Specialist	823	MG
SH 3113	Navy Exchange/Commissary Store Specialist	823	MG
SH 3114	Commissary Store Manager	840	MG
SH 3122	Barber	840	MG
SH 3154	Laundry/Dry Cleaning Specialist	840	MG
JO 3221	Radio-TV Specialist	570	GU
3301-05	• Missile Fire Control Systems Technicians	121	PJ
3311-17	• Missile Technicians	121	PJ
3321-36	• Navigation Electronics Technicians	193	PJ
3341-42	• PORI/IDAS Technicians	121	PJ
3343-44	• Ocean Survey Technicians	193	PJ
3346	• Missile Fire Control Technician (Poseidon C-3 IMA)	121	PJ
3349	• FBM Weapons & Navigation System Technician-Special Category	121	PJ
3351-59	• Submarine Nuclear Propulsion Plant Operators	661	PR
3361-66	• Submarine Nuclear Propulsion Plant Supervisors	661	PR
3373	Nuclear Propulsion Plant Maintenance Supervisor-Electronics	661	PJ

Italicized letters are defined in introductory material.

266 OCCUPATIONAL CONVERSION MANUAL

NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
3383-89	Surface Ship Nuclear Propulsion Plant Operators	661	PR
3393-96	Surface Ship Nuclear Propulsion Plant Supervisors	661	PR
MS 3524	Unaccompanied Personnel Housing (UPH) Management Specialist	801	MG
MS 3529	Wardroom/Enlisted Dining Facility Supervisor	800	MD
MS 3533	Galley/Pantry Watch Captain	800	MD
MS 3535	Commissary Store Meat & Produce Department Supervisor	800	MG
MS 3537	Commissary Store Meat Cutter	800	MD
MU 3801-14	Instrumentalists	450	MX
MU 3825	Vocalist	450	MX
MU 3851	Assistant Bandleader	450	MX
IS 3901	Satellite Sensor Interpreter	242	GI
IS 3902	Carrier Based Strike Warfare Opintel Analyst	243	GI
IS 3903	Ocean Surveillance Information System (OSIS) Analyst	243	GI
IS 3904	Amphibious Warfare Operational Intelligence Analyst	243	GI
GS 4110	• DD-963/DDG-993/CG-47 Class Gas Turbine Operator	652	RR
GS 4111	• DD-963/DDG-993/CG-47 Class Gas Turbine Mech Maintenance Technician	652	PR
GS 4112	• DD-963 Class Electrical Equipment Technician	662	PB
GS 4115	• DD-963/DDG-993/CG-47 Class Gas Turbine Elec Maintenance Technician	652	PR
GS 4120	• FFG-7 Class Gas Turbine Operator	652	RR
GS 4121	• FFG-7 Class Gas Turbine Mech Maintenance Technician	652	PR
GS 4122	• FFG-7 Class Gas Turbine Elec Maintenance Technician	652	PR
GS 4127	• FFG-7 Class Engineering System Technician	652	PR
MM 4204	Steam Propulsion Maintenance Supervisor	651	PR
MM 4221	IMA Outside Machine Shop Journeyman	651	PR
MM 4245	• SSN/SSBN Auxiliary Equipment Technician	652	PR
MM 4246	• SSN/SSBN Diesel Engine (Fairbanks-Morse) Maintenance Technician	652	PR
MM 4252	Electrolytic Oxygen Generator (Model 6L16) Operator	652	PZ
MM 4262	Electrolytic Oxygen Generator (7L16) Operator/Mech. Technician	652	PR
MM 4283	High & Low Pressure Cryogenic Technician	750	PZ
MM 4291	Centrifugal Air-Conditioning Mechanic	720	PS
MM 4294	Refrigeration & Air Conditioning Mechanic	720	PS
MM 4295	UNREP Equipment Mechanic	690	PR
MM 4296	Shipboard Elevator Hydraulic/Mechanical System Mechanic	690	PS
EN 4301	Auxiliary Gas Turbine Technician	652	PR
EN 4314	Diesel Engine Inspector	651	PR
EN 4315-18	Diesel Engine Technicians	651	PR
EN 4322	Patrol Gunboat (PG) Engineer	652	PR
EN 4331	IMA Engine Shop Journeyman	651	PR
EN 4362	LST 1182 Class Propulsion System Technician	652	PR
EN 4381	• FFG-7 Class Auxiliaries Mechanical Subsystem Technician	652	PR
EN 4382	• FFG-7 Class Auxiliaries Mechanical System Technician	652	PR
EN 4398	DD-963 Auxiliary Systems Technician	652	PR
BT 4501	Automated Propulsion Control System Operator	651	RR
BT 4502	Boiler Repair Technician	651	PR
BT 4503	Main Propulsion Steam Generating Plant Inspector	651	PR
BT 4505	Steam Propulsion Maintenance Supervisor	651	RR
BT 4506	LHA Automated Propulsion Control System Operator	651	RR
BT 4507	AO-177 Class Ship APS Operator	651	RR
BT 4511-13	Automatic Combustion Control Maintenancemen	651	PR
BT 4515	Pressure-Fired Boiler Operator	651	PR
BT 4518-21	1200 PSI Steam-Generating Plant Supervisors	651	PR

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
BT 4524	Steam Propulsion Advanced Maintenance Technician (Phase I)	651	PR
BT 4531-33	Automatic Combustion Control Console Operators	651	RR
EM 4615	Electrical Motor Rewinder	662	PB
EM 4616	Noise & Vibration Analyst	662	PS
EM 4621	IMA Electrical Shop Journeyman	662	PB
EM 4626	DD-963 Electrical Component Maintenance Technician	662	PB
EM 4631	• FFG-7 Class Auxiliaries Electrical Subsystem Technician	662	PB
EM 4632	• FFG-7 Class Auxiliaries Electrical System Technician	662	PB
EM 4666	Minesweeping Electrician	647	PB
EM 4668-69	UNREP Electrical Component Maintencemancan	662	PB
EM 4671	Shipboard Elevator Electronic/Electrical Systems Maintenance Tech	690	PS
EM 4672	Steam Catapult Electrician	662	PB
IC 4701	Automated Propulsion Control System Maintenance Technician	651	PR
IC 4702	LHA Automated Propulsion Control System Maintenance Technician	651	PR
IC 4703	• FFG-7 Class Interior Communications Subsystem Technician	623	PB
IC 4704	AO-177 Class Ship APS Maintenance Technician	651	PR
IC 4711	Interior Voice Communications Systems Maintenance Technician	623	PB
IC 4713-15	Automatic Telephone Repairmen	623	PB
IC 4722-25	Gyrocompass Technicians	670	PN
IC 4727	• WSN-2 Stabilized Gyrocompass Technician	670	PN
IC 4728	• WSN-5 Inertial Navigation Set Technician	102	PJ
IC 4731	Auxiliary Electrician	623	PB
IC 4734	• Trident Sub Ship Control & Atmosphere Supp Op & Maintenance Tech.	623	PB
IC 4745	Optical Landing Systems Technician	670	PN
IC 4746	Closed Circuit TV Technician	191	PJ
IC 4747	Broadcast Television Systems Technician	191	PJ
IC 4752	Electrolytic Oxygen Generator (Model 6L16) Maintenance Technician	690	PR
IC 4762	Electrolytic Oxygen Generator (Model 7L16) Elec. Supp. Technician	690	PB
IC 4771-76	Plotting Systems Technicians	623	PB
HT 4921	IMA Metal Worker Journeyman	700	PA
HT 4931-39	NDT Metal Specialists	701	PA
HT 4941	IMA Pipe Shop Journeyman	701	PA
HT 4954-56	Welders	433	TA
5301	• UDT/SEAL Candidate	433	GZ
5302	EOD Candidate	433	GZ
5303	Second Class Diver Candidate	433	GZ
5311	• Saturation Diver	433	GZ
5320-27	• Special Warfare/Combatant Swimmers	431	TA
5332	EOD Diver	431	GZ
5333	EOD Diver/Parachutist	431	GZ
5341	Master Diver	433	GZ
5342	Diver First Class	433	GZ
5343	Diver Second Class	433	GZ
5345	Scuba Diver	433	GZ
5346	• Master Saturation Diver	433	GZ
EA 5501	Construction Inspector	710	PC
EA 5503	Advanced Engineering Aide	710	GC
CE 5632	Shore-Based Powerplant Technician	721	PB
CE 5633	Mobile Utilities Support Equipment (MUSE) Technician	721	PB
CE 5635	Advanced Construction Electrician	710	PB
CE 5642	Central Office Exchange Technician	622	PB

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268 OCCUPATIONAL CONVERSION MANUAL

NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
CE 5644	Cable Splicing Technician	621	PB
EO 5707	Water Well Drilling Technician	713	RC
EO 5708	Blaster	710	PC
EO 5710	Advanced Equipment Operator	710	RC
CM 5804	Stationary Diesel Engine Mechanic	662	PS
CM 5805	Advanced Construction Mechanic	710	PS
BU 5907	Advanced Builder	710	PC
BU 5908	Tool & Equipment Technician	712	PA
BU 5915	Construction Planner & Estimator Specialist	710	PC
BU 5931	Advanced Underwater Construction Technician	710	PC
BU 5932	Basic Underwater Construction Technician	710	PC
SW 6010	Advanced Steelworker	703	PA
SW 6021	Safety Inspector	493	MS
UT 6102	Shore-Based Boiler Controls Technician	720	RX
UT 6104	Shore-Based Refrigeration & Air Conditioning Technician	720	RX
UT 6105	Advanced Utilitiesman	720	RX
AZ 6313	3-M System Data Analyst	555	GW
AD 6401	Spectrometric Oil Analysis Program (SOAP) Evaluator	491	GA
AD 6402	Reciprocating Engine Technician	601	PQ
AD 6409	J-57 Jet Engine CER/IMA Technician	601	PQ
AD 6412	J-79 Jet Engine CER/IMA Technician	601	PQ
AD 6414	TF-41 Turbo Fan Jet Engine IMA/CER Technician	601	PQ
AD 6415	TF-30 Turbo Fan Jet Engine IMA/CER Technician	601	PQ
AD 6416	J-52 Jet Engine CER/IMA Technician	601	PQ
AD 6417	T400-CP-400 Turbo-Fan Jet Engine IMA Technician	601	PQ
AD 6418	T-56 Turbo-Fan Jet Engine IMA Technician	601	PQ
AD 6419	T-58 Turbo-Fan Jet Engine CER/IMA Technician	601	PQ
AD 6421	TF-34 Turbo-Fan Jet Engine CER/IMA Technician	601	PQ
AD 6422	Jet Test Cell Operator	601	PQ
AX 6522	AKT-22 Data Link IMA Technician	102	PK
AX 6526-29	Aviation Antisubmarine Warfare IMA Technicians	130	PJ
AX 6533	ASA-16 Integrated Tactical Display IMA Technician	150	PK
AX 6534	AQA-7 DIFAR System IMA Technician	102	PJ
AX 6555	S3A Weapons System Integrator	102	PJ
AX 6564	ASW Acoustic Detection Systems IMA Technician	102	PJ
AX 6569	ASW Operations Center Technician	150	PK
AX 6571	CV-ASWM Antisubmarine Warfare Technician	102	PJ
AX 6582	P-3A/B Weapons System OMA Technician	102	PJ
AX 6583	P-3C Sensor Station 1&2 (AQA-7) OMA Technician	102	PJ
AX 6585	P-3C Sensor Station Three (Radar & Display) OMA Technician	102	PJ
AX 6586	P-3C OMA Weapons System Technician	102	PJ
AT 6602	ASN-99 Projected Map Display Set Intermediate Maintenance Tech.	102	PJ
AT 6603	ASN-99 Projected Map Display Set & ASM-398 PGSE IMA Technician	102	PJ
AT 6605	Aircraft Navigation Equipment IMA Technician	102	PJ
AT 6606	Aircraft Doppler Radar Navigation IMA Technician	102	PJ
AT 6607	Digital Data Link Communications IMA Technician	150	PK
AT 6608	Aircraft Navigation Computers IMA Technician	102	PJ
AT 6609	Aircraft Electronic Identification	102	PJ
AT 6611	Aircraft Communications Equipment IMA Technician	102	PJ
AT 6612	Aircraft Tacan Maintenance IMA Technician	102	PJ
AT 6613	ARC-143/ARC-161 Radio Set IMA Technician	102	PJ

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
AT 6614	APS-116 Intermediate Maintenance Technician	102	PJ
AT 6615	P-3 FLIR IMA Technician	102	PJ
AT 6616	APS-120 Radar IMA Technician	104	PJ
AT 6617	APM-341(V) PGSE IMA Technician	102	PJ
AT 6619	HATS (USM-403) Operator	198	PJ
AT 6621	APS-125 Radar IMA Technician	102	PJ
AT 6623	CI ASA-27 SACE Test Bench IMA Technician	150	PJ
AT 6624	APS-96 Search Radar IMA Technician	102	PJ
AT 6625	USM-449 (V) & AAI 5500 Series ATE Int Maintenance Level Tech.	150	PJ
AT 6626	CD CP-413/ASA-27A SACE Test Bench IMA Technician	150	PJ
AT 6627	ASQ-52 Multi-Purpose Communications System IMA Technician	150	PJ
AT 6628	HATS (USM-403) IMA Maintenance Technician	198	PJ
AT 6629	USM-449 (V) & AAI 5500 Series ATE Operator	150	PJ
AT 6631	ASM-122/144 & On-Board Memory Tester IMA Technician	150	PK
AT 6632	Communications Security Devices Equipment (KY-28) Technician	160	PJ
AT 6633	Communications Security Devices (E-2/S-3 Aircraft) IMA Technician	160	PJ
AT 6634	Comm. Security Devices Equipment (P-3/S-3 Aircraft) IMA Tech.	160	PJ
AT 6635	EP-3E ESM IMA Technician	102	PJ
AT 6638	AAD-5 IMA Technician	104	PJ
AT 6639	ALR-45/50/54 ECM IMA Technician	102	PJ
AT 6640	EP-3E ESM OMA Technician	102	PJ
AT 6641	ALQ-126 ECM IMA Technician	102	PJ
AT 6643	ALQ-100 ECM IMA Technician	102	PJ
AT 6644	DECM (ALQ-92) IMA Technician	102	PJ
AT 6645	ALM-106 (MATE) Test Console IMA Technician	102	PJ
AT 6646	ALQ-91/108 DECM IMA Technician	102	PJ
AT 6647	ALQ-99 ECM Jammer/T'mitter & ALM-107 Test Console IMA Technician	102	PJ
AT 6648	ALQ-99 ECM Track Receivers & ALM-109 Test Console IMA Technician	102	PJ
AT 6649	ECM Systems Intermediate Maintenance Technician	102	PJ
AT 6651	ASM-347 (GT-1) SACE Programmer/Maintenance IMA Technician	198	PJ
AT 6652	VAST (USM-247(V)) Operator	198	PJ
AT 6653	VAST (USM-247 (V)) On-Line Maintenance Technician	198	PJ
AT 6654	Digital Test Station (ALM-117) Maintenance Technician	102	PJ
AT 6655	TS-2109 & TS-2110/ASA-48 SACE Programmer IMA Technician	198	PJ
AT 6659	VAST (USM-247 (V)) Test Program Set Analyst	198	PJ
AT 6660	Dynamic Alignment Test Set IMA Technician	198	PJ
AT 6661	TT-264 Teletype Repair IMA Technician	160	PJ
AT 6662	APA-125/APS-80 Radar System IMA Technician	102	PJ
AT 6663	VAST (USM-247 (V)) Off-Line Maintenance/Calibration Technician	198	PJ
AT 6664	APS-115 Search Radar & AXR-13 LLLTV IMA Technician	102	PJ
AT 6665	Drone Electronics Technician	198	PJ
AT 6666	EA-6B EXCAP Central Computer (AYA-6) Technician	150	PK
AT 6667	EA-6B EXCAP DTS Oper & ALQ-99 Displays Int Maintenance Technician	102	PJ
AT 6668	EA-6B ECM OMA System Analyst	102	PJ
AT 6671	Radio Frequency Test Station (RFTS) IMA Technician	102	PJ
AT 6672	P-3C COMNAV OMA Technician	102	PJ
AT 6673	Field Calibration Activity Technician (Electrical/Electronic)	102	PN
AT 6674	ALQ-99/ALQ-86 Surveillance Receivers & ALM-108 IMA Technician	102	PJ
AT 6675	DMTC (ALM-163) IMA Technician	102	PJ
AT 6676	ALM-139/142/155 Subassembly Test Console IMA Technician	102	PJ
AT 6677	TARPS Camera Repair IMA Technician	102	PN

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
AT 6679	DTS Operator & Digital Display Group IMA Technician	102	PK
AT 6680	EA-6B ICAP Central Computer AYA-6 Technician	102	PK
AT 6681	EA-3B OMA ESM Technician	102	PJ
AT 6682	EA-3B/ERA 3 ESM Intermediate Maintenance Technician	102	PJ
AT 6683	CAT III D IMA Technician	102	PJ
AT 6684	AAM-60 Electrical Optical System Test Set IMA Technician	102	PJ
AT 6691	E-2C Passive Detection System OMA Technician	102	PJ
AT 6692	E-2C AEW System Analyst OMA Technician	102	PJ
AT 6696	TACAMO CCCS/UHF/HF Communications IMA Technician	102	PJ
AT 6697	TACAMO VLF Transmitter/Receiver VFTG IMA Technician	102	PJ
AT 6698	EC-130 TACAMO OMA Technician	102	PJ
AO 6801	Air Launch Weapons Intermediate Guided Missile Technician	646	PO
AO 6802	Strike Intermediate Armament Maintenance Technician	646	PO
AO 6803	P-3C Armament/Ordnance IMA Technician	646	PO
AO 6804	P-3C Armament/Ordnance System OMA Technician	646	PO
AO 6805	P-3A/B Armament/Ordnance System IMA Technician	646	PO
AO 6806	P-3A/B Armament/Ordnance System OMA Technician	646	PO
AC 6901	Facility Rated Approach Controller	222	GG
AC 6902	Carrier Air Traffic Control Center Controller	222	GG
AB 7022	Aviation Gasoline Handler	604	RQ
AE 7105	ASN-50 Attitude Heading Reference System IMA Technician	602	PB
AE 7106	Central Air Data Computer IMA Technician	602	PB
AE 7107	A7A/B IMA Air Data Computer Technician	602	PB
AE 7109	Loft Bomb Computer Set (AJB-3A/3B) AFRS IMA Technician	602	PB
AE 7112	ASN-31/ASN-36 Inertial Navigation System IMA Technician	602	PJ
AE 7114	ASN-42 INS AFRS IMA Technician	602	PB
AE 7115	Attitude Ref. Bombing Computer Set (AJB-7) AFRS IMA Technician	602	PB
AE 7116	ASN-90 Inertial Measurement Set IMA Technician	602	PJ
AE 7117	ASN-84 Inertial Navigation System IMA Technician	602	PJ
AE 7123	S-5 AFCS IMA Technician	602	PB
AE 7128	A-7 AFCS IMA Technician	602	PB
AE 7129	F-14 AHRS/EMATS IMA Technician	602	PB
AE 7132	ASW-15/16/39/40/41/42 AFCS & ADC IMA Technician	602	PB
AE 7133	ASN-54 (APCS) IMA Technician	602	PB
AE 7135	H-53 AFCS OMA Technician	602	PB
AE 7136	PB-20 Auto Pilot IMA Technician	602	PB
AE 7144	Helicopter ASE/AFCS Intermediate Maintenance Technician	602	PB
AE 7149	ASN-92 Navigation Maintenance Technician	602	PB
AE 7166	Jet Test Cell Electrical Maintenance Technician	602	PB
AE 7171	CP-953 ADC & AJM-32 SSE IMA Technician	150	PK
AE 7172	ASM-375 PGSE IMA Technician	602	PB
AE 7173	ASM-175 Electronic Module Test Console IMA Technician	150	PJ
AE 7174	INS/AFCS/UE/ADC SACE or Flight Systems GT-4 UE Test Console Tech.	150	PJ
AE 7175	S-3A Electrical Systems IMA Maintenance Technician	602	PB
AE 7181	P-3C Integrated Electrical System OMA Specialist	602	PB
AE 7182	P-3A/B Integrated Electrical System OMA Specialist	602	PB
AE 7183	A-7E Electrical Intermediate Maintenance Technician	602	PB
AE 7196	Inertial Platform Test Station IMA Technician	102	PJ
AM 7212	Stationary Hydraulics Test Stand Operator/Maintenance Technician	602	PQ
AM 7222	Inert-Gas Arc-Welder	701	PA
AM 7223	Aircraft & Engine Component Welder	701	PA

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
AM 7225	Aircraft Maintenance Non-Destructive Inspector	603	PQ
PR 7352	Senior Naval Parachutist	012	GE
PR 7354	Master Naval Parachutist	012	GE
AG 7412	Analyst-Forecaster	420	GA
AG 7414	Rawin/Radiosonde Operator	420	GA
TD 7514	Surface Training Equipment Technician	191	PJ
TD 7523	Operational Flight/Weapons Systems Trainer Technician	191	PJ
TD 7553	Submarine Training Equipment Technician	191	PJ
AW 7801	• Naval Aircrewman Candidate	210	GQ
AW 7821	• Improved System Acoustic Operator	210	GN
AW 7825-26	• ASWOC & CV ASW Module Operators	210	GN
AW 7831	• S-3A Automated Sensor Operator	210	GN
AW 7851	• Non-Acoustic Operator	210	GN
AW 7861	• Improved System Non-Acoustic Operator	210	GN
AW 7871	• Multipurpose System Operator	210	GN
AW 7872	• Combined Systems Operator	210	GN
AW 7881	• Sonar Systems Operator	210	GN
AQ 7918	APQ-116 Radar IMA Technician	104	PJ
AQ 7919	APQ-126 FLR SSE IMA Technician	104	PJ
AQ 7921	AVQ-7 HUD IMA Technician	104	PJ
AQ 7922	AVQ-7 HUD SSE (AVM-11) IMA Technician	104	PJ
AQ 7923	ASCU & Tactical Computer SSE IMA Technician	198	PK
AQ 7931	AWG-10 Transmitter & Antenna IMA Technician	104	PJ
AQ 7932	AWG-10 Receiver IMA Technician	104	PJ
AQ 7934	AWG-10A Fire Control System Maintenance Technician	104	PJ
AQ 7935	AWG-10A/AWM-80 Computer/Computer Test Sta Int Maintenance Tech.	104	PJ
AQ 7936	AWG-10A Xmt, Antenna, & Missile Control Int Maintenance Tech.	104	PJ
AQ 7937	Receiver & Indicator Maintenance Technician	104	PJ
AQ 7952	A-6E OMA Weapons System Specialist	102	PJ
AQ 7953	APQ-148/156 Radar, AAS-33 FLIR & APM-375 MSRTD IMA Technician	104	PJ
AQ 7954	ASQ-133/155 Ballistic Comp & Comp Systems Test Console IMA Tech.	150	PJ
AQ 7955	Radar Systems Module Repair Intermediate Maintenance Technician	150	PK
AQ 7958	A-6E TRAM DRS OMA Weapons System Technician	104	PJ
AQ 7959	AAS-33 DRS Receiver Group/Compressor IR Indicator IMA Technician	104	PJ
AQ 7963	APQ-103/129 Search Radar, Mini-SACE Test Console IMA Tech	104	PJ
AQ 7964	AVA-1 Analog Display Indicator & Test Console IMA Technician	104	PJ
AQ 7967	A-7E OMA Weapons System Specialist	104	PJ
AQ 7968	A-6E/EA-6B Radar/Mini-SACE IMA Technician	104	PJ
AQ 7969	F/A-18 OMA Integrated Weapons Technician	104	PJ
AQ 7975	APQ-126 FLR IMA Technician	104	PJ
AQ 7976	C-8185 ASCU & Tactical Computer (ASN-91) IMA Technician	104	PK
AQ 7983	AERO-1A Missile Control System IMA Technician	104	PJ
AQ 7984	AWG-9/AWM-23 Radio Frequency Test Console IMA Technician	102	PJ
AQ 7985	ASM-624 Operator/AWM-23 Test Equipment Calibrator	150	PJ
AQ 7986	AWG-9/AWM-23 Phoenix AMCS Radar IMA Technician	121	PJ
AQ 7988	AWG-9/AWM-23 Low Frequency Test Station IMA Technician	150	PJ
AQ 7991	AWG-9/AWM-23 Controls & Displays Test Station IMA Technician	150	PJ
AQ 7992	AWG-9/AWM-23 Module Test Station IMA Technician	150	PJ
AK 8011	Aviation Repairables Management Specialist	551	GW
PH 8126	Photographic Quality Controlman	400	GU
PH 8133	NIPS Photo Processing/Maintenanceman	198	PN

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
PH 8136	Underwater Photographer, Scuba Diver	400	GU
PH 8143	Cinema/TV Production Specialist	400	GU
PH 8144	Motion Picture/TV Director	400	GU
PH 8146	Motion Picture Script Writer	400	GU
PH 8148	Photojournalist	400	GU
PH 8149	Motion Picture Sound Transmission & Recording Engineer	400	GU
PH 8192	Photographic Equipment Repairman	670	PN
8201	Naval Aircrewman Candidate	050	GQ
8202	Naval Aircrewman (Special Assignment)	050	GQ
8211	Helicopter Utility Aircrewman	050	GQ
8215	• Helicopter Rescue Aircrewman	050	GQ
8216	Vertical Replenishment Aircrewman	050	GQ
8225	Vertical Onboard Delivery Aircrewman	050	GQ
8226	Mine Countermeasures Helicopter Aircrewman	647	GQ
8241	Utility Aircrewman	050	GQ
8243	• A-3 Plane Captain/Crew Chief	050	GQ
8244	• A-3 Crewman/Navigator	050	GQ
8245	Transport Aircrewman	050	GQ
8250	C-9 Crew Chief	050	GQ
8251	• P-3 Flight Engineer	050	GQ
8252	C-130 Flight Engineer	050	GQ
8258	Transport Flight Crew Plane Captain	050	GQ
8261	• P-3A/B In-Flight Avionics Maintenance Technician	600	PJ
8263	• P-3C In-Flight Avionics Maintenance Technician	600	PJ
8264	• E-2C AEW Flight Technician	102	PJ
8265	• Flight Communications Operator	201	GT
8267	• E-2B AEW Flight Technician	102	PJ
8269	Flight Electronics Technician	102	PJ
8271	• P-3 Flight Crew Ordnanceman	050	GQ
8273	TACAMO Systems Operator	104	GN
8274	TACAMO Systems Reel Operator	104	RZ
8276	• P-3 Second Mechanic	600	PQ
8278	Loadmaster	553	GQ
8284	• Electronics Warfare Operational Intelligence Crewman	233	GI
8288	Aerial Cameraman	400	GU
8289	Flight Attendant	553	MG
8294	Search & Rescue Medical Technician	300	GM
8295	• Cryptologic Technician Operator/Analyst	232	GI
8302-81	Aircraft Maintenance Technicians	600	PQ
HM 8402	• Nuclear Submarine Medicine Technician	322	GM
HM 8404	• Medical Field Service Technician	300	GM
HM 8406	Aerospace Medicine Technician	300	GM
HM 8407	Nuclear Medicine Technician	322	GM
HM 8408	Cardiopulmonary Technician	300	GM
HM 8409	Aerospace Physiology Technician	322	GM
HM 8416	Clinical Nuclear Medicine Technician	311	GM
HM 8425	Advanced Hospital Corpsman	300	GM
HM 8432	Preventive Medicine Technician	322	GM
HM 8433	Transplantation Technician	300	GM
HM 8444	Ocular Technician	300	GM
HM 8445	Advanced Ocular Technician	300	GM

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
HM 8446	Otolaryngology Technician	300	GM
HM 8451	Basic X-Ray Technician	313	GM
HM 8452	X-Ray Technician	313	GM
HM 8454	Electroencephalography Technician	302	GM
HM 8463	Optician Technician	311	GM
HM 8466	Physical Therapy Technician	303	GM
HM 8472	Photography Technician	400	GU
HM 8477	Biomedical Equipment Technician, Basic	198	PS
HM 8478	Advanced Biomedical Equipment Technician	198	PS
HM 8482	Pharmacy Technician	312	GM
HM 8483	Operating Room Technician	301	GM
HM 8485	Neuropsychiatry Technician	302	GM
HM 8486	Urological Technician	300	GM
HM 8489	Orthopedic Cast Room Technician	304	GM
HM 8492	Special Operations Technician	322	GM
HM 8493	Medical Deep Sea Diving Technician	322	GM
HM 8495	Dermatology Technician	300	GM
HM 8496	Embalming Technician	492	MG
HM 8501-41	Specialized Medical Team Technicians	311	GM
DT 8703	Dental Administration Technician	330	GM
DT 8707	Field Service Dental Technician	330	GM
DT 8714	Research Assistant	331	GM
DT 8732	Dental Equipment Repair Technician	198	PS
DT 8752	Dental Laboratory Technician, Basic	331	GM
DT 8753	Dental Laboratory Technician, Advanced	331	GM
DT 8765	Dental Laboratory Technician, Maxillofacial	331	GM
CT 9107-29	Multiple Branches/Rating Series (Cryptology)	230	GI
CTT 9140-52	Cryptologic Technicians (Technical) (CTT)	231	GI
CTR 9165-69	Cryptologic Technicians (Collection) (CTR)	231	GI
CTO 9180-85	Cryptologic Technicians (Communications)	260	GI
CTI 9197-99	Basic Linguists	232	GI
CTI 9200-16	Basic Linguists	232	GI
CTI 9230-36	Intermediate Linguists	232	GI
CTI 9240	Advanced Russian Linguist	232	GI
CTM 9250-95	Cryptologic Maintenance Technicians	102	PJ
9501	Learning Center Instructor	012	GE
9502	Instructor	012	GE
9505	Survival, Evasion, Resistance, & Escape (SERE) Instructor	012	GE
9506	Instructional Programmer	570	GE
9507	Digital Computer Programmer	532	GK
9508	Recruit/Assistant Recruit Company Commander/Recruit Instructor	012	GE
9511	3-M System Maintenance Operations Manager	510	GW
9512	3-M System Coordinator	510	GW
9513	Manpower Analyst	500	GP
9514	Management Engineering Technician	500	GY
9515	Equal Opportunity Program Specialist	500	GP
9516	Correctional Counselor	831	ML
9518	Leadership & Management Education & Training Instructor	012	GE
9519	Alcoholism Treatment Specialist	501	GP
9521	Collateral Duty Alcoholism Advisor	501	GP
9522	Drug & Alcohol Abuse Counselor	501	GP

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NAVY ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
9523	Floating Drydock Dockmaster	790	RZ
9524	Floating Drydock Ballast Controller	790	RZ
9528	Human Resource Management Specialist	500	GP
9531	FFG-7 Class Combat Systems Technician	113	PJ
9533	Patrol Boat/Coastal/Riverine Combatant Craft Captain/Crewman	011	RR
9535	Combat System Technician	113	PJ
9537	Aegis Combat System Technician	113	PJ
9539	Patrol Combatant Missile (Hydrofoil) (PHM) Technician	062	RR
9541	Sentry Dog Handler	070	ML
9542	Drug Detector Dog Handler	070	ML
9545	Security Guard	070	ML
9548	Corrections Specialist	831	ML
9558	FLTCORGRU (Fleet Composite Operational Readiness Grp.) Specialist	011	GN
9559	Engineering Bulk Fuel System (Shore) Technician	491	RW
9561	Petroleum Specialist	491	GA
9562-63	Deep Submergence Crewmembers	062	RR
9568	Naval Control of Shipping Staff Assistant	553	GW
9577	Military Affiliate Radio System (MARS) Operator	201	GT
9578	Country, Area, or Regional Classification Enlisted (CARCE)	510	JY
9579	Chief of The Boat (All Submarines)	521	GY
9580	Command Master Chief	521	GY
9581	Rubber & Plastics Worker	760	PZ
9583	Locksmith	670	PN
9585	Navy Recruiter Canvasser	501	GP
9586	Career Recruiter	501	GP
9588	Collateral Duty Career Information Coordinator	501	GP
9589	Command Career Information Retention Counselor/Coordinator	501	GP
9591	Radiological Control Monitor	491	GZ
9593	Submarine Repairman	690	PR
9597	Radiac Technician	670	PN
9598	Disaster Preparedness Operations & Training Specialist	494	GZ
9901	Nuclear Propulsion Plant Operator Trainee	661	WE

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MARINE CORPS ENLISTED

Service Occ.	Title
0121	Personnel Clerk
0131	Unit Diary Clerk
0151	Administrative Clerk
0161	Postal Clerk
0193	Personnel/Administrative Chief
0211	Counterintelligence Specialist
0231	Intelligence Specialist
0241	Imagery Interpretation Specialist
0251	Interrogation-Translation Specialist
0291	Intelligence Chief
0311	• Rifleman
0321	• Reconnaissance Man
0331	• Machine Gunner
0341	• Mortar Man
0351	• Assaultman
0352	• Anti-Tank/Assault Guided Missile Man
0369	• Infantry Unit Leader
0411	Maintenance Management Specialist
0431	Logistics/Embarcation Specialist
0451	Air Delivery Specialist
0481	Shore Party Specialist
0491	Combat Support Chief
0811	• Field Artillery Batteryman
0812	• Field Artillery Nuclear Projectileman
0842	• Field Artillery Radar Operator
0843	• Searchlight Man
0844	• Field Artillery Fire Control Man
0847	• Artillery Meteorological Man
0848	• Field Artillery Operations Man
0861	• Fire Support Man
1141	Electrician
1142	Electrical Equipment Repair Specialist
1161	Refrigeration Mechanic
1169	Utilities Chief
1171	Hygiene Equipment Operator
1172	Well Driller
1181	Fabric Repair Specialist
1182	Office Machine Repair Specialist
1316	Metal Worker
1341	Engineer Equipment Mechanic
1345	Engineer Equipment Operator
1346	Rock Quarry Operator
1349	Engineer Equipment Chief
1371	Combat Engineer
1391	Bulk Fuel Specialist
1411	Construction Drafter
1431	Map Compiler
1441	Construction Surveyor
1442	Geodetic Surveyor
1453	Mapping Chief
1521	Offset Press Operator

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MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
1532	Process Camera Operator	740	PU
1541	Reproduction Chief	740	PU
1542	Reproduction Equipment Repairer	690	PS
1811	• Tank Crewman	020	TB
1833	• Assault Amphibian Crewman	020	TB
2111	Infantry Weapon Repairer	641	PO
2112	Rifle Team Equipment Repairer	641	PO
2131	Artillery Weapons/Turret Repairer	642	PO
2142	Tracked Vehicle Repairer, Assault Amphibian Vehicle	611	PH
2144	Tracked Vehicle Repairer, Self-Propelled Artillery	611	PH
2145	Tracked Vehicle Repairer, Tank	611	PH
2146	Tank Turret Repairman	643	PO
2149	Tracked Vehicle Technician	611	PH
2161	Repair Shop Machinist	702	PA
2171	Optical Instrument Repairer	670	PN
2172	Electro-Optical Equipment Technician	670	PN
2181	Weapons Technician	640	PO
2191	Ordnance Chief	640	PO
2311	Ammunition Technician	645	PO
2336	Explosive Ordnance Disposal Technician	431	GZ
2362	Ground Nuclear Ordnance Technician	644	PO
2512	Field Wireman	621	PB
2513	Construction Wireman	621	PB
2519	Wire Chief	621	PB
2531	Field Radio Operator	202	GT
2532	Microwave Equipment Operator	202	GT
2533	Radio Telegraph Operator	201	GT
2534	High Frequency Communication Central Operator	202	GT
2537	Radio Chief	201	GT
2542	Communication Center Operator	260	GT
2549	Communication Center Chief	260	GT
2581	Radio Frequency Management Technician	201	GT
2591	Operational Communication Chief	201	GT
2621	Manual Morse Intercept Operator	231	GI
2622	Radio Direction Finder Operator	231	GI
2629	Signals Intelligence Analyst	232	GI
2631	Non-Morse Intercept Operator/Analyst	231	GI
2632	Non-Communications Intercept Operator/Analyst	231	GI
2643	Cryptologic Translator	232	GI
2649	Cryptanalyst	232	GI
2651	Special Intelligence Communicator	231	GI
2669	Cryptologic Support Specialist	232	GI
2671	Cryptologic Linguist, Arabic	232	GI
2672	Cryptologic Linguist, Chinese	232	GI
2673	Cryptologic Linguist, Korean	232	GI
2674	Cryptologic Linguist, Spanish	232	GI
2675	Cryptologic Linguist, Russian	232	GI
2691	Signals Intelligence/Electronic Warfare Chief	230	GI
2811	Telephone Technician	623	PB
2813	Cable Systems Technician	621	PB
2814	Central Office Installer-Repairer	622	PB

Italicized letters are defined in introductory material.

MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
2818	Teletype Technician	160	PJ
2819	KG/13 Teletype Technician	160	PJ
2822	Electronic Switching Equipment Technician	101	PJ
2823	Technical Controller	101	GT
2825	Fixed Ciphony Technician	160	PJ
2826	Digital Subscriber Terminal Technician	160	PJ
2827	Mobile Data Terminal Technician	160	PJ
2828	KW-26 Terminal Technician	160	PJ
2829	Mobile Communications Central Technician	160	PJ
2831	Microwave Equipment Repairer	101	PJ
2833	Satellite Terminal Repairer	101	PJ
2841	Ground Radio Repairer	101	PJ
2845	Ground Organizational Radio Repairer	101	PJ
2861	Radio Technician	101	PJ
2864	Satellite Terminal Technician	101	PJ
2871	Test Measurement & Diagnostic Equipment Technician	198	PN
2874	Metrology Technician	198	PJ
2875	Small Missile System Technician	632	PO
2877	Radiac Instrument Technician	198	PN
2881	Communication Security Equipment Technician	198	PJ
2882	KG-30 Comsec Technician	198	PJ
2884	Ground Radar Repairer	104	PJ
2885	FADAC Radar Repairer	104	PJ
2886	Artillery Electronics Repairer	104	PJ
2887	Weapons Location Equipment Repairer	104	PJ
2889	Ground Radar Technician	104	PJ
2891	Data/Communications Maintenance Chief	160	PJ
3043	Supply Administration & Operations Clerk	551	JW
3044	Purchasing & Contracting Specialist	551	GW
3051	Warehouse Clerk	822	JW
3052	Packaging Specialist	822	RW
3061	Subsistence Supply Clerk	822	JW
3072	Aviation Supply Clerk	551	JW
3073	SUADPS-EU Computer Systems Operator	531	JK
3111	Freight Operations Clerk	822	JW
3121	Freight Transportation Clerk	553	JW
3141	Passenger Transportation Clerk	553	JW
3191	Transportation Chief	553	GW
3311	Baker	800	MD
3372	Cook, Specialist	800	MD
3381	Food Service Specialist	800	MD
3421	Personal Financial Records Clerk	542	JF
3431	Travel Clerk	541	JY
3432	Disburser/Disbursing Chief	542	JF
3441	Auditing Technician	541	GF
3451	Accounting Technician	541	GF
3513	Body Repair Mechanic	704	PA
3521	Organizational Automotive Mechanic	610	PH
3522	Intermediate Automotive Mechanic	610	PH
3523	Vehicle Recovery Mechanic	610	PH
3524	Fuel & Electrical Systems Mechanic	610	PH

Italicized letters are defined in introductory material.

MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
3529	Motor Transport Maintenance Chief	610	PH
3531	Heavy Vehicle Operator	811	RH
3533	Tractor Trailer Operator	811	RH
3534	Semi-Trailer Refueler Operator	811	RH
3535	Light Vehicle Operator	811	RH
3537	Motor Transport Operations Chief	811	RH
3538	Licensing Examiner	811	ML
4034	Computer Operator	531	JK
4038	Data Control Coordinator	531	GK
4063	Programmer, COBOL	532	GK
4065	Programmer, ALC	532	GK
4066	Programmer, EDL	532	GK
4069	Systems Programmer	532	GK
4111	Bookkeeper, Nonappropriated Funds	541	JF
4131	Exchange Marine	823	MG
4132	Club Manager/Treasurer	800	MG
4313	Broadcast Journalist	570	GU
4321	Print Journalist	570	GU
4322	Photojournalist	570	GU
4391	Public Affairs Chief	570	GU
4421	Legal Services Specialist	512	GL
4425	Legal Services Notereader/Transcriber-Stenotype	512	JL
4429	Legal Services Reporter-Stenotype	512	JL
4611	Graphics Specialist	414	GZ
4621	Training & Audiovisual Operations Specialist	562	GE
4641	Photographer	400	GU
4642	Photographic Technician	400	GU
4653	Audiovisual Equipment Technician	191	PJ
4671	Motion Picture Photographer	400	GU
4672	Motion Picture Editor/Scriptwriter	400	GU
4673	Audio/Television Production Specialist	400	GU
4691	Training & Audiovisual Support Chief	400	GU
5519	Enlisted Band Leader	450	MX
5521	Band Drum Major	450	MX
5523	Instrument Repair Specialist	450	PS
5526	Musician, Oboe/English Horn	450	MX
5528	Musician, Bassoon	450	MX
5534	Musician, Clarinet	450	MX
5536	Musician, Flute & Piccolo	450	MX
5537	Musician, Saxophone	450	MX
5541	Musician, Cornet/Trumpet	450	MX
5543	Musician, Baritone Horn/Euphonium	450	MX
5544	Musician, French Horn	450	MX
5546	Musician, Trombone	450	MX
5547	Musician, Tuba & String Bass/Electric Bass	450	MX
5563	Musician, Percussion (Drums, Timpani, Mallets)	450	MX
5565	Musician, Piano or Accordion or Guitar	450	MX
5567	Arranger, Band	450	MX
5571	Drum & Bugle Corps Drum Major	450	MX
5574	Bugler, Soprano or Mellophone	450	MX
5576	Bugler, French Horn	450	MX

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MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
5577	Bugler, Bass Baritone	450	MX
5579	Bugler, Contrabass	450	MX
5592	Drum & Bugle Corps Arranger	450	MX
5593	Drummer, Drum & Bugle Corps	450	MX
5711	Nuclear, Biological & Chemical Defense Specialist	494	TZ
5761	Marine Wing Weapons Unit Specialist	644	PO
5811	Military Police	830	ML
5812	Marijuana Detector Dog Handler	830	ML
5813	Accident Investigator	830	ML
5821	Criminal Investigator	832	ML
5822	Polygraph Examiner	832	ML
5831	Corrections Specialist	831	ML
5832	Correctional Counselor	831	ML
5911	Microminiature Circuit Repair Specialist	121	PJ
5921	Improved Hawk Fire Control Repairer	104	PJ
5922	Improved Hawk Information Coordination Central Repairer	104	PJ
5923	Improved Hawk Firing Section Repairer	121	PJ
5924	Improved Hawk Pulse Radar Technician	121	PJ
5925	Improved Hawk Continuous Wave Radar Technician	121	PJ
5926	Improved Hawk Auto Fire Distr & Engagement Sim'or Sys. Technician	121	PJ
5927	Improved Hawk Fire Control Technician	121	PO
5928	Improved Hawk Missile System Maintenance Technician	104	PO
5929	Improved Hawk Mechanical System Repairer	101	PJ
5937	Aviation Radio Repairer	101	PJ
5938	Aviation Meteorological Equipment Technician	101	PJ
5939	Aviation Radio Technician	104	PJ
5942	Aviation Radar Repairer B (AN/TPS-22)	104	PJ
5943	Aviation Fire Control Repairer	104	PJ
5944	Aviation Radar Repairer (AN/TPS-63)	104	PJ
5945	Aviation Radar Repairer C (AN/TPS-32)	104	PJ
5947	Aviation Fire Control Technician	104	PJ
5948	Aviation Radar Technician	104	PJ
5952	Air Traffic Control Navigational Aids Technician	103	PJ
5953	Air Traffic Control Radar Technician	103	PJ
5954	Air Traffic Control Communications Technician	103	PJ
5955	Air Traffic Control Navigational Aids Repairer	103	PJ
5956	Marine Air Traffic Control Unit Radar Repairer	103	PJ
5957	Air Traffic Control Radar Repairer	103	PJ
5958	Air Traffic Control Communications Repairer	103	PJ
5959	Air Traffic Control Electronics Maintenance Chief	103	PJ
5962	Tactical Air Command Central Repairer	150	PK
5963	Tactical Air Operations Central Repairer	150	PK
5964	Tactical Data Communications Central Repairer	150	PK
5974	Tactical Air Command Central Technician	150	PK
5977	Tactical General Purpose Computer Technician	150	PK
5982	Digital Data Systems Technician, Univac 1500 System	150	PK
5993	Electronics Maintenance Chief	104	PJ
5994	Tactical Data Systems Electronics Maintenance Chief	150	PK
6012	Aircraft Mechanic, A-4/TA-4/OA-4	600	PQ
6013	Aircraft Mechanic, A-6/EA-6	600	PQ
6014	Aircraft Mechanic, F-4/RF-4	600	PQ

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MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
6015	Aircraft Mechanic, AV-8/TAV-8	600	PQ
6016	Aircraft Mechanic, KC-130	600	PQ
6017	Aircraft Mechanic, F/A-18	600	PQ
6018	Aircraft Mechanic, OV-10	600	PQ
6019	Aircraft Maintenance Chief	600	PQ
6022	Aircraft Power Plants Mechanic J52	601	PQ
6023	Aircraft Power Plants Mechanic T76	601	PQ
6024	Aircraft Power Plants Mechanic J79	601	PQ
6025	Aircraft Power Plants Mechanic Rolls Royce Pegasus	601	PQ
6026	Aircraft Power Plants Mechanic T56	601	PQ
6027	Aircraft Power Plants Mechanic, F-404	601	PQ
6028	Aircraft Mechanic Reciprocating	601	PQ
6032	Aircraft Flight Engineer, KC-130	050	GQ
6034	Spectrometric Oil Analysis Technician	491	GA
6035	Aircraft Power Plants Test Cell Operator, Fixed Wing	601	PQ
6043	Aircraft Welder	701	PA
6044	Aircraft Non-Destructive Testing Supervisor	603	PQ
6046	Aircraft Maintenance Administration Clerk	555	JW
6047	Aircraft Maintenance Data Analysis Technician	531	GW
6052	Aircraft Hydraulic/Pneumatic Mechanic, A-4/TA-4/OA-4	600	PQ
6053	Aircraft Hydraulic/Pneumatic Mechanic, A-6/EA-6	600	PQ
6054	Aircraft Hydraulic/Pneumatic Mechanic, F-4/RF-4	600	PQ
6055	Aircraft Hydraulic/Pneumatic Mechanic, AV-8/TAV-8	600	PQ
6056	Aircraft Hydraulic/Pneumatic Mechanic, KC-130	600	PQ
6057	Aircraft Hydraulic/Pneumatic Mechanic, F/A-18	600	PQ
6058	Aircraft Hydraulic/Pneumatic Mechanic, OV-10	600	PQ
6059	Aircraft Airframes Maintenance Chief	603	PQ
6060	Flight Equipment Marine	860	RW
6072	Aircraft Maintenance Ground Support Equipment Mechanic	610	PS
6075	Cryogenics Equipment Operator	750	PZ
6076	A/C Maintenance Ground Support Eqp't. Hydr./Pneum./Struc. Mech.	602	PS
6077	Aircraft Maintenance Ground Support Equipment Electrician	602	PB
6078	A/C Maintenance Ground Support Equipment Refrigeration Mech.	720	PS
6079	Aircraft Maintenance Ground Support Equipment Chief	610	PS
6082	Aircraft Safety Equipment Mechanic, A-4/TA-4/OA-4	602	PQ
6083	Aircraft Safety Equipment Mechanic, A-6/EA-6	602	PQ
6084	Aircraft Safety Equipment Mechanic, F-4/RF-4	602	PQ
6085	Aircraft Safety Equipment Mechanic, AV-8/TAV-8	602	PQ
6086	Aircraft Safety Equipment Mechanic, KC-130	602	PQ
6087	Aircraft Safety Equipment Mechanic, F/A-18	602	PQ
6088	Aircraft Safety Equipment Mechanic, OV-10	602	PQ
6089	Aircraft Safety Equipment Mechanic, A-6/EA-6	602	PQ
6090	Aircraft Safety Equipment Chief	602	PQ
6092	Aircraft Structures Mechanic, A-4/TA-4/OA-4	603	PQ
6093	Aircraft Structures Mechanic, A-6/EA-6	603	PQ
6094	Aircraft Structures Mechanic, F-4/RF-4	603	PQ
6095	Aircraft Structures Mechanic, AV-8/TAV-8	603	PQ
6096	Aircraft Structures Mechanic, KC-130	603	PQ
6097	Aircraft Structures Mechanic, F/A-18	603	PQ
6098	Aircraft Structures Mechanic, OV-10	603	PQ
60X1	Aircraft Maintenance Trainee	950	WE

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MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
6111	Helicopter Mechanic-Trainee	950	WE
6112	Helicopter Mechanic CH-46	600	PQ
6113	Helicopter Mechanic CH-53	600	PQ
6114	Helicopter Mechanic U/AH-1	600	PQ
6115	Helicopter Mechanic, CH-53E	600	PQ
6119	Helicopter Maintenance Chief	600	PQ
6122	Helicopter Power Plants Mechanic, T-58	601	PQ
6123	Helicopter Power Plants Mechanic, T-64	601	PQ
6124	Helicopter Power Plants Mechanic, T-53	601	PQ
6125	Helicopter Power Plants Mechanic, T-400	601	PQ
6132	Helicopter Dynamic Components Mechanic	602	PQ
6135	Aircraft Power Plants Test Cell Operator, Rotary Wing	601	PQ
6142	Helicopter Structures Mechanic, CH-46	603	PQ
6143	Helicopter Structures Mechanic, CH-53	603	PQ
6144	Helicopter Structures Mechanic, U/AH-1	603	PQ
6152	Helicopter Hydraulic/Pneumatic Mechanic, CH-46	600	PQ
6153	Helicopter Hydraulic/Pneumatic Mechanic, CH-53	600	PQ
6154	Helicopter Hydraulic/Pneumatic Mechanic, U/AH-1	600	PQ
6155	Helicopter Hydraulic/Pneumatic Mechanic, CH-53E	600	PQ
6167	Helicopter Crew Chief	050	GQ
6311	A/C Communications/Navigation Systems Technician-Trainee, OMA/IMA	950	WE
6312	Aircraft Comm./Navigation Systems Technician, A-4/TA-4/OA-4	100	PJ
6313	Aircraft Comm./Navigation Systems Technician, A-6/TC-4C/EA-6A	100	PJ
6314	Aircraft Comm./Navigation Systems Technician, RF-4/F-4	100	PJ
6315	Aircraft Comm./Navigation Systems Technician, AV-8	100	PJ
6316	Aircraft Comm./Navigation Systems Technician, KC-130/OV-10	100	PJ
6317	Aircraft Comm./Navigation Systems Technician, F/A-18	100	PJ
6322	Aircraft Comm./Navigation Systems Technician, CH-46	100	PJ
6323	Aircraft Comm./Navigation Systems Technician, CH-53	100	PJ
6324	Aircraft Comm./Navigation Systems Technician, U/AH-1	100	PJ
6331	Aircraft Electrical Systems Technician-Trainee	950	WE
6332	Aircraft Electrical Systems Technician, A-4/TA-4/OA-4	602	PB
6333	Aircraft Electrical Systems Technician, A-6/TC-4C/EA-6	602	PB
6334	Aircraft Electrical Systems Technician, F-4/RF-4	602	PB
6335	Aircraft Electrical Systems Technician, AV-8	602	PB
6336	Aircraft Electrical Systems Technician, KC-130/OV-10	602	PB
6337	Aircraft Electrical Systems Technician, F/A-18	602	PB
6342	Aircraft Electrical Systems Technician, CH-46	602	PB
6343	Aircraft Electrical Systems Technician, CH-53	602	PB
6344	Aircraft Electrical Systems Technician, U/AH-1	602	PB
6345	Helicopter Electrical Systems Technician, CH-53E	602	PB
6351	Advanced Avionics Technician-Trainee	950	WE
6352	Aircraft Weapons Systems Specialist, A-4/TA-4/OA-4	121	PJ
6353	Aircraft Weapons Systems Specialist, A-6/TC-4C	121	PJ
6354	Aircraft Weapons Systems Specialist, F-4/J/S	121	PJ
6355	Aircraft Weapons Systems Specialist, AV-8	121	PJ
6357	Aircraft Weapons Systems Specialist, F/A-18	121	PJ
6359	Aircraft Weapons Systems Specialist, EA-6A	121	PJ
6362	Aircraft Weapons Systems Specialist, F-4N	121	PJ
6363	Aircraft Radar Reconnaissance Systems Technician, RF-4	104	PJ
6364	Aircraft Weapons Systems Specialist, Helicopter/A-6/OV-10/F/A-18	121	PJ

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MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
6365	Aircraft Communications/Navigation/Radar Systems Tech., EA-6B	102	PJ
6367	Aircraft Integrated Weapon Systems Technician, F/A-18, OMA	121	PJ
6371	Aerial Camera Systems Technician-Trainee	950	WE
6372	Aerial Camera Systems Technician	602	PN
6374	Imagery Interpretation Equipment Repair Technician	602	PN
6384	Aircraft Passive ECM Systems Technician, EA-6A	102	PJ
6385	Aircraft Active ECM Systems Technician, EA-6A	102	PJ
6386	Aircraft Electronic Countermeasures Systems Technician, EA-6B	102	PJ
6391	Avionics Maintenance Chief, OMA/IMA	100	PJ
6412	Aircraft Communications Systems Technician, Fighter/Attack, IMA	100	PJ
6413	Aircraft Communications Sys. Technician, Helo/KC-130/OV-10, IMA	100	PJ
6414	Aircraft Navigation Systems Technician, IFF, IMA	102	PJ
6415	Aircraft Navigation Systems Technician, Radar, IMA	102	PJ
6416	Aircraft Navigation Systems Technician, TACAN, IMA	102	PJ
6422	Aircraft Cryptographic Systems Technician, IMA	100	PJ
6423	Aviation Electronic Micro-Miniature Repair Technician	121	PJ
6432	Aircraft Electrical/Instrument Systems Tech., Fighter/Attack, IMA	602	PB
6433	Aircraft Electrical/Instrument Sys. Tech., Helo/KC-130/OV-10, IMA	602	PB
6434	A/C Fit Cont. & Air Data Computer Sys. Tech., Fighter/Attack, IMA	121	PK
6435	A/C Fit Cont & Air Data Computer Sys Tech, Helo/KC-130/OV-10, IMA	121	PK
6442	A/C Analog Display System SACE Technician, A-6/EA-6, IMA	121	PK
6443	Aircraft Ballistics Computer Technician, A-6E, IMA	121	PJ
6444	Aircraft Radar Systems Technician, A-6E/SACE, IMA	121	PJ
6445	Aircraft Inertial Navigation Systems SACE Technician, A-6, IMA	121	PJ
6446	Semi-Automatic Checkout Eqpt. (SACE) MATC/EMTC Systems Tech., IMA	121	PJ
6452	Aircraft ALQ-99 Jammer Systems Technician, IMA	102	PJ
6453	Aircraft ALQ-99 Track & Surveillance Systems Technician, IMA	102	PJ
6454	Aircraft ALQ-99 Display/AYA-6 Systems Technician, IMA	102	PJ
6455	ECM Module Repair Technician, IMA	102	PJ
6462	Intermediate Level Avionics Support Systems (ILASS) Tech., IMA	121	PJ
6463	Radar Test Station (RTS) Technician, IMA	104	PJ
6464	Carrier Aircraft Inertial Navigation System (CAINS) Tech., IMA	121	PJ
6465	Hybrid Test Set Technician, IMA	121	PJ
6472	Aircraft Weapons Systems Technician, A-4/AV-8, IMA	121	PJ
6473	Aircraft Weapons Systems Technician, AERO-1A, IMA	121	PJ
6474	Aircraft Weapons Systems Technician, AWG-10, IMA	121	PJ
6475	Aircraft Radar/IR Reconnaissance Systems Technician, IMA	104	PJ
6476	Aerial Camera, ADAS Systems Technician, IMA	602	PN
6477	Aircraft Forward Looking Infrared/TOW Technician, IMA	121	PJ
6482	A/C Deceptive Electronic Countermeasures Systems Technician, IMA	102	PJ
6484	Aircraft Passive ECM Systems Technician, IMA, EA-6A	102	PJ
6485	Aircraft Active ECM Systems Technician, IMA, EA-6A	102	PJ
6492	Aviation PME Calibration Technician, IMA	121	PN
6493	Aviation PME & ATE Repair Technician, IMA	121	PN
6511	Aircraft Ordnance Technician-Trainee	950	WE
6521	Aviation Ordnance Munitions Technician, IMA	646	PO
6531	Aircraft Ordnance Technician, A-6E/EA-6	646	PO
6532	Aircraft Ordnance Technician, A-4/TA-4/OA-4	646	PO
6534	Aircraft Ordnance Technician, F-4/RF-4	646	PO
6535	Aircraft Ordnance Technician, AV-8	646	PO
6536	Aircraft Ordnance Technician, AH-1J/T, UH-1N, CH-46/53	646	PO

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MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
6537	Aircraft Ordnance Technician, F/A-18	646	PO
6538	Aircraft Ordnance Technician, OV-10	646	PO
6541	Aviation Ordnance Equipment Repair Technician-Fixed Wing, IMA	646	PO
6542	Aviation Ordnance Equipment Repair Technician-Rotary Wing, IMA	646	PO
6581	Aviation Ordnance Chief	646	PO
6821	Weather Observer	420	GA
6822	Rawinsonde Operator	420	GA
6842	Weather Forecaster	420	GA
7011	Aircraft Recovery Specialist	604	RQ
7041	Aviation Operations Specialist	556	RQ
7051	Aircraft Firefighting & Rescue Specialist	495	MS
7212	FAAD Gunner	121	TD
7222	Hawk Missile System Operator	104	TD
7234	Air Command & Control Electronics Operator	221	GN
7236	Tactical Air Controller	221	GN
7242	Air Support Operations Operator	221	GN
72X1	Air Control/Air Support/Anti-Air Warfare Trainee	950	WE
7312	Air Traffic Controller-Tower	222	GG
7322	Air Traffic Controller-Radar	222	GG
7324	Air Traffic Controller	222	GG
7372	First Navigator	051	GO
7382	Airborne Radio Operator/Loadmaster	201	GT
73X1	Air Traffic Control & Enlisted Flight Crews Trainee	950	WE
8033	Quality Assurance Technician (Subsistence)	321	GA
8151	Guard	070	ML
8231	Education Assistant	570	GE
8411	Recruiter	501	GP
8412	Career Recruiter	501	GP
8421	Career Planner	501	GP
8431	Psychological Operations Non-Commissioned Officer	243	TZ
8441	Civil Affairs Non-Commissioned Officer	243	GY
8511	Drill Instructor	012	GE
8512	Drill Sergeant	012	GE
8531	Marksmanship Instructor	012	GE
8538	Drug & Alcohol Abuse Counselor/Specialist	501	GP
8541	Scout-Sniper	010	TA
8561	Physical Training Instructor	562	GE
8563	Water Safety/Survival Instructor	012	GE
8611	Interpreter (Designated Language)	241	GI
8621	Surveillance Sensor Operator	233	GN
8631	Surveillance Sensor Maintenance Marine	102	PJ
8652	Reconnaissance Man, Parachute Jump Qualified	010	TA
8653	Reconnaissance Man, Scuba Qualified	010	TA
8654	Reconnaissance Man, Parachute & Scuba Qualified	010	TA
8711	Infantry Operations Assistant	250	GN
8811	Firefighter	495	MS
8911	Barracks & Grounds Marine	850	RX
8915	Food Service Attendant	801	MD
8921	Athletic & Recreation Assistant	562	MG
8981	Military Affiliate Radio System Radio Operator	201	GT
9051	Graves Registration Specialist	492	MG

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MARINE CORPS ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
9811	United States Marine Band	450	MX
9915	Special Assignment-Enlisted	920	WZ
9918	Billet Designator-Enlisted	920	WZ
9952	Scuba Marine	010	TA
9953	Parachutist/Scuba Marine	010	TA
9956	Ground Safety Specialist	493	MS
9962	Parachutist	010	TA
9971	Basic Marine With Enlistment Guarantee	950	WE
9981	Tactical Data Systems Specialist	532	GK
9991	Sergeant Major of The Marine Corps	521	GY
9999	Sergeant Major/First Sergeant	521	GY
XX00	Basic Marine, Enlisted	950	WE

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AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
10090	First Sergeant	521	GY
10000	First Sergeant	521	GY
111X0	Defensive Aerial Gunner	050	TD
11100	Defensive Aerial Gunner Manager	050	TD
112X0	In-Flight Refueling Operator	050	GQ
11200	In-Flight Refueling Manager	050	GQ
113X0	Flight Engineer	050	GQ
11399	Flight Engineer Superintendent	050	GQ
11300	Flight Engineer Manager	050	GQ
114X0	Aircraft Loadmaster	050	GQ
11400	Aircraft Loadmaster Manager	050	GQ
115X0	Pararescue/Recovery Specialist	050	GQ
11500	Pararescue/Recovery Manager	050	GQ
116X0	Airborne Communications Systems Operator	201	GT
11600	Airborne Communications Systems Manager	201	GT
121X0	Survival Training Specialist	012	GE
12100	Survival Training Manager	012	GE
122X0	Aircrew Life Support Specialist	860	RW
12200	Aircrew Life Support Manager	860	RW
201X0	Intelligence Operations Specialist	243	GI
201X1	Target Intelligence Specialist	242	GI
20199	Intelligence Operations & Targeting Superintendent	243	GI
202X0	Radio Communications Analysis Specialist	232	GI
20200	Radio Communications Analysis Manager	232	GI
203X0	Linguist/Interrogator Specialist	241	GI
20300	Linguist/Interrogator Manager	241	GI
205X0	Electronic Intelligence Operations Specialist	233	GI
20500	Electronic Intelligence Operations Manager	233	GI
206X0	Imagery Interpreter Specialist	242	GI
20690	Imagery Interpreter Superintendent	242	GI
20600	Intelligence Operations & Exploitation Manager	242	GI
207X1	Morse Systems Operator	231	GI
207X2	Printer Systems Operator	231	GI
20799	Communications Collection Systems Superintendent	231	GI
20700	Communications Collection/Systems Manager	231	GI
208X1	Germanic Cryptologic Linguist Technician	232	GI
208X2	Romance Cryptologic Linguist Technician	232	GI
208X3	Slavic Cryptologic Linguist Technician	232	GI
208X4	Far East Cryptologic Linguist Technician	232	GI
208X5	Mid East Cryptologic Linguist Technician	232	GI
20899	Cryptologic Linguist Superintendent	232	GI
20800	Cryptologic Linguist Manager	232	GI
209X0	Defensive C3CM Specialist	233	GI
20900	Defensive C3CM Manager	233	GI
222X0	Geodetic Specialist	412	GC
22200	Geodetic Manager	412	GC
231X0	Audiovisual Media Specialist	400	GU
231X1	Graphics Specialist	414	GZ
231X2	Still Photographic Specialist	400	GU
23199	Audiovisual Services Superintendent	400	GU
23100	Audiovisual Manager	400	GU

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286 OCCUPATIONAL CONVERSION MANUAL

AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
232X0	Audiovisual Production-Documentation Specialist	400	GU
233X0	Continuous Photoprocessing Specialist	400	GU
233X1	Photoprocessing Control Specialist	400	GU
23399	Photoprocessing Superintendent	400	GU
241X0	Safety Specialist	493	MS
24100	Safety Manager	493	MS
242X0	Disaster Preparedness Specialist	494	GZ
24200	Disaster Preparedness Manager	494	GZ
251X0	Weather Specialist	420	GA
25100	Weather Manager	420	GA
271X1	Airfield Management Specialist	556	RQ
271X2	Operations System Management Specialist	556	RQ
27199	Air Operations Superintendent	556	RQ
27100	Air Operations Manager	556	RQ
272X0	Air Traffic Control Operator	222	GG
27200	Air Traffic Control Manager	222	GG
273X0	Combat Control Operator	250	GN
27300	Combat Control Manager	250	GN
274X0	Command & Control Specialist	250	GN
27400	Command & Control Manager	250	GN
275X0	Tactical Air Command & Control Specialist	250	GN
27500	Tactical Air Command & Control Manager	250	GN
276X0	Aerospace Control & Warning Systems Operator	221	GN
276X2	Intercept Director Specialist	221	GN
27699	Aerospace Control & Warning Systems Superintendent	221	GN
27600	Aerospace Control & Warning Systems Manager	221	GN
277X0	Space Systems Operations Specialist	221	GN
27700	Space Systems Operations Manager	221	GN
291X0	Telecommunications Operations Specialist	260	GT
29100	Telecommunications Operations Manager	260	GT
293X3	Ground Radio Operator	201	GT
295X0	Automatic Digital Switching Specialist	260	GT
296X0	Communications Programs/Requirements & Resources Mgt Spec	201	GT
29600	Communications-Electronics Programs Manager	201	GT
297X0	Radio Frequency Management Specialist	201	GT
29700	Radio Frequency Manager	201	GT
30100	Communications-Electronics Systems Manager	101	PJ
302X0	Weather Equipment Specialist	198	PJ
302X1	Airborne Meteorological/Atmospheric Research Equipment Specialist	198	PJ
30299	Weather Equipment Superintendent	198	PJ
303X1	Air Traffic Control Radar Specialist	103	PJ
303X2	Aircraft Control & Warning Radar Specialist	104	PJ
303X3	Automatic Tracking Radar Specialist	104	PJ
30399	Ground Radar Superintendent	104	PJ
304X0	Wideband Communications Equipment Specialist	101	PJ
304X1	Navigational Aids Equipment Specialist	102	PJ
304X4	Ground Radio Communications Specialist	101	PJ
304X5	Television Equipment Specialist	191	PJ
304X6	Space Communications Systems Equipment Operator/Specialist	101	PJ
30499	Ground Radio Communications Superintendent	101	PJ
305X4	Electronic Computer and Switching Systems Specialist	150	PK

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AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
306X0	Electronic Comm. & Cryptographic Equipment Systems Specialist	160	PJ
306X1	Electronic-Mechanical Comm. & Crypto. Equipment Systems Spec.	160	PJ
306X2	Telecom Sys/Equipment Maintenance Specialist	160	PJ
30699	Telecom Fac Elec/Elec Mech Comm & Crypto Equipment Systems Spec.	160	PJ
307X0	Telecommunications Systems Control Specialist	101	GT
30700	Telecommunications Systems Control Manager	101	GT
309X0	Space Systems Equipment Maintenance Specialist	104	PJ
316X0	Missile Systems Analyst Specialist	122	PJ
316X1	Missile Systems Maintenance Specialist	121	PO
316X2	Missile Electronic Equipment Specialist	122	PJ
316X3	Instrumentation Specialist	122	PJ
31699	Missile Electronic Maintenance Superintendent	122	PJ
31600	Missile Electronic Maintenance Manager	122	PJ
321X0	Bomb-Navigation Systems Mechanic	111	PJ
321X1	Defensive Fire Control Systems Mechanic	112	PJ
321X2	Weapon Control Systems Mechanic	112	PJ
32199	Avionic Weapon Delivery Systems Superintendent	112	PJ
322X2	Avionic Sensor Systems Specialist	102	PJ
32299	Avionic Sensor Systems Superintendent	102	PJ
324X0	Precision Measuring Equipment Specialist	198	PN
32400	Precision Measuring Equipment Manager	198	PN
325X0	Automatic Flight Control Systems Specialist	102	PK
325X1	Avionics Instrument Systems Specialist	198	PJ
32599	Automatic Flight Control/Avionic Instrument Systems Superintendent	198	PK
326X0	Avionics Aerospace Ground Equipment Specialist	198	PJ
326X3	Integrated Avionics EW Equipment & Component Specialist	198	PJ
326X4	Integrated Avionics Computerized Test Sta & Component Specialist	198	PJ
326X5	Integrated Avionics Manual Test Sta & Component Specialist	198	PJ
326X6	Integrated Avionics Attack Control Systems Specialist	198	PJ
326X7	Integrated Avionics Instrument & Flight Control Systems Spec.	198	PK
326X8	Integrated Avionics Comm, Nav & Penetration Aids Systems Spec.	198	PJ
32699	Integrated Avionics Superintendent	198	PJ
328X0	Avionic Communications Specialist	101	PJ
328X1	Avionic Navigation Systems Specialist	102	PJ
328X2	Airborne Warning & Control Radar Specialist	104	PJ
328X3	Electronic Warfare Systems Specialist	102	PJ
328X4	Avionic Inertial & Radar Navigation Systems Specialist	102	PJ
328X5	Airborne Command Post Communications Equipment Specialist	101	PJ
32899	Avionic Communications Navigation Systems Superintendent	102	PJ
32900	Avionics Manager	102	PJ
341X1	Instrument Trainer Specialist	191	PJ
341X2	Defensive Systems Trainer Specialist	191	PJ
341X3	Analog Flight Simulator Specialist	191	PJ
341X4	Digital Flight Simulator Specialist	191	PJ
341X5	Analog Navigation/Tactics Training Devices Specialist	191	PJ
341X6	Digital Navigation/Tactics Training Devices Specialist	191	PJ
341X7	Missile Trainer Specialist	191	PJ
34199	Training Devices Superintendent	191	PJ
34100	Training Devices Manager	191	PJ
361X0	Cable & Antenna Systems Installation/Maintenance Specialist	621	PB
361X1	Cable Splicing Installation & Maintenance Specialist	621	PB

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AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
36199	Cable & Antenna Installation & Maintenance Superintendent	621	PB
362X1	Telephone Central Office Switching Eqpt. Spec., Elec/Electro-Mech	622	PB
362X3	Missile Control Communications Systems Specialist	623	PB
362X4	Telephone Equipment Installation & Repair Specialist	623	PB
36299	Telephone Plant Maintenance Superintendent	623	PB
36200	Telephone/Cable & Antenna Maintenance Manager	623	PB
391X0	Maintenance Systems Analysis Specialist	558	GW
39100	Maintenance Systems Analysis Manager	558	GW
392X0	Maintenance Scheduling Specialist	558	GW
39200	Maintenance Scheduling Manager	558	GW
404X0	Precision Imagery & Audiovisual Media Maintenance Specialist	198	PN
404X1	Aerospace Photographic Systems Specialist	198	PN
40499	Photographic Systems Maintenance Superintendent	198	PN
40400	Photographic Systems Maintenance Manager	198	PN
423X0	Aircraft Electrical Systems Specialist	602	PB
423X1	Aircraft Environmental Systems Mechanic	602	PQ
423X2	Aircraft Egress Systems Mechanic	602	PQ
423X3	Aircraft Fuel Systems Mechanic	602	PQ
423X4	Aircraft Pneudraulic Systems Mechanic	602	PQ
423X5	Aerospace Ground Equipment Mechanic	602	PS
42399	Aircraft Accessory Systems Superintendent	602	PQ
426X1	Reciprocating Propulsion Mechanic	601	PQ
426X2	Jet Engine Mechanic	601	PQ
426X3	Turboprop Propulsion Mechanic	601	PQ
42699	Aircraft Propulsion Superintendent	601	PQ
427X0	Machinist	702	PA
427X1	Corrosion Control Specialist	701	PA
427X2	Non-Destructive Inspection Specialist	760	PA
427X3	Fabrication & Parachute Specialist	760	PZ
427X4	Metals Processing Specialist	701	PA
427X5	Airframe Repair Specialist	603	PQ
42799	Fabrication Superintendent	700	PA
42700	Fabrication Manager	700	PA
431X0	Helicopter Mechanic	600	PQ
431X1	Tactical Aircraft Maintenance Specialist	600	PQ
431X2	Airlift/Bombardment Aircraft Maintenance Specialist	600	PQ
43199	Aircraft Maintenance Superintendent	600	PQ
43200	Aircraft Maintenance Manager	600	PQ
443X0	Missile Maintenance Specialist	632	PO
443X1	Missile Pneudraulic Specialist	633	PS
44399	Missile Maintenance Superintendent	632	PO
44300	Missile Maintenance Manager	632	PO
445X0	Missile Facilities Specialist	633	PS
445X1	Missile Liquid Propellant Systems Maintenance Specialist	633	PS
44599	Missile Facilities/Propellant Systems Superintendent	633	PS
44500	Missile Facilities/Propellant Systems Manager	633	PS
461X0	Munitions Systems Specialist	645	PO
46100	Munitions Maintenance Manager	645	PO
462X0	Aircraft Armament Systems Specialist	646	PO
46200	Aircraft Armament Manager	646	PO
463X0	Nuclear Weapons Specialist	140	PO

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AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
46300	Nuclear Weapons Manager	140	PO
464X0	Explosive Ordnance Disposal Specialist	431	GZ
46400	Explosive Ordnance Disposal Manager	431	GZ
472X0	Base Vehicle Equipment Mechanic	612	PH
472X1	Special Vehicle Mechanic	610	PH
47271	Special Vehicle & Base Vehicle Equipment Supervisor	610	PH
472X2	General Purpose Vehicle Mechanic	610	PH
472X3	Vehicle Body Mechanic	704	PA
472X4	Vehicle Maintenance Control & Analysis Technician	558	GW
47275	General Purpose Vehicle & Body Maintenance Supervisor	704	PA
47299	Vehicle Maintenance Superintendent	704	PH
47200	Vehicle Maintenance Manager	704	PH
511X0	Computer Operator	531	JK
511X1	Computer Programming Specialist	532	GK
51199	Computer Systems Superintendent	532	GK
51100	Computer Systems Manager	532	GK
542X0	Electrician	721	PB
542X1	Electric Power Line Specialist	721	PB
542X2	Electrical Power Production Specialist	662	RX
54299	Electrical Superintendent	721	PB
54200	Electrical Manager	721	PB
545X0	Refrigeration & Cryogenics Specialist	720	RX
545X1	Liquid Fuel Systems Maintenance Specialist	720	PS
545X2	Heating Systems Specialist	720	PS
545X3	CE Control System Specialist	721	PS
54599	Mechanical Superintendent	720	RX
54500	Mechanical Manager	720	RX
551X0	Pavements Maintenance Specialist	710	RX
551X1	Construction Equipment Operator	713	RC
55199	Pavements & Construction Equipment Superintendent	713	RC
55100	Pavement & Construction Equipment Manager	713	RC
552X0	Carpentry Specialist	712	PC
552X1	Masonry Specialist	710	RX
552X2	Metal Fabricating Specialist	703	PA
55273	Structural Technician	710	PC
552X4	Protective Coating Specialist	710	PC
552X5	Plumbing Specialist	720	PC
55299	Structural Superintendent	710	PC
55200	Structural Manager	710	PC
553X0	Engineering Assistant Specialist	412	GC
55300	Site Development Manager	412	GC
554X0	CE Resources Management Specialist	541	GF
55400	CE Resources Manager	541	GF
555X0	Production Control Specialist	710	PC
55500	Production Control Manager	710	PC
566X0	Entomology Specialist	720	RZ
566X1	Environmental Support Specialist	720	RX
56699	Sanitation Superintendent	720	RX
56600	Sanitation Manager	720	RX
571X0	Fire Protection Specialist	495	MS
57100	Fire Protection Manager	495	MS

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AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
591X0	Seaman	062	RR
59170	Boatmaster	062	RR
591X1	Marine Engine Specialist	652	PR
59199	Marine Superintendent	652	PR
59100	Marine Manager	652	PR
602X0	Passenger & Household Goods Specialist	553	GW
602X1	Freight Traffic Specialist	553	GW
602X2	Packaging Specialist	822	RW
60273	Traffic Management Supervisor	553	GW
60299	Traffic Management Superintendent	553	GW
60200	Traffic Manager	553	GW
603X0	Vehicle Operator/Dispatcher	811	RH
60370	Vehicle Operations Supervisor	811	RH
60390	Vehicle Operations Superintendent	811	RH
60300	Vehicle Operations Manager	811	RH
605X0	Air Passenger Specialist	553	GW
605X1	Air Cargo Specialist	553	GW
60572	Air Transportation Supervisor	553	GW
60599	Air Transportation Superintendent	553	GW
60500	Air Transportation Manager	553	GW
611X0	Services Specialist	823	MG
61100	Services Manager	823	MG
612X0	Meatcutter	800	MD
61270	Meat Processing Supervisor	800	MD
612X1	Subsistence Operations Specialist	823	JW
61299	Subsistence Operations Superintendent	823	JW
61200	Subsistence Manager	823	JW
622X0	Food Service Specialist	800	MD
622X1	Diet Therapy Specialist	800	MD
62299	Food Service Superintendent	800	MD
62200	Food Service Manager	800	MD
631X0	Fuel Specialist	821	RW
63100	Fuel Manager	821	RW
645X0	Inventory Management Specialist	551	GW
645X1	Material Facilities Specialist	822	RW
645X2	Supply Systems Specialist	551	GW
64599	Supply Management Superintendent	551	GW
64500	Supply Manager	551	GW
651X0	Contracting Specialist	551	GW
65100	Contracting Manager	551	GW
661X0	Logistics Plans Specialist	551	GW
66100	Logistics Plans Manager	551	GW
672X1	Financial Management Specialist	541	GF
672X2	Financial Services Specialist	542	JF
67273	Financial Management Supervisor	541	GF
67299	Financial Management Superintendent	541	GF
67200	Financial Manager	541	GF
673X0	Auditing Specialist	541	GF
67300	Auditing Manager	541	GF
691X0	Cost & Management Analysis Specialist	558	GY
69100	Cost & Management Analysis Manager	558	GY

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AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ. IDOS
701X0	Chapel Management Specialist	561 MG
70100	Chapel Manager	561 MG
702X0	Administration Specialist	510 JY
70200	Administration & Reprographic Manager	510 GY
703X0	Reprographic Specialist	740 PU
70390	Reprographic Superintendent	740 PU
705X0	Legal Services Specialist	512 GL
70500	Legal Services Manager	512 GL
732X0	Personnel Specialist	500 GP
732X1	Personal Affairs Specialist	500 GP
732X4	Career Advisory Specialist	501 GP
73299	Personnel Superintendent	500 GP
73200	Personnel Resource Manager	500 GP
733X1	Manpower Management Specialist	500 GP
73300	Manpower Resource Manager	500 GP
734X0	Social Actions Specialist	562 MG
73499	Social Actions Superintendent	562 MG
73400	Social Actions Manager	562 MG
741X1	Recreation Services Specialist	562 MG
74100	Recreation Services Manager	562 MG
742X0	Open Mess Management Specialist	801 MG
74200	Open Mess General Manager	801 MG
751X0	Education Specialist	570 GE
751X2	Training Specialist	570 GE
751X3	Instructional System Specialist	570 GE
75199	Education & Training Superintendent	570 GE
753X0	Small Arms Specialist	012 GE
753X1	Gunsmith Specialist	641 PO
75399	Small Arms Superintendent	012 GE
75300	Small Arms Manager	012 GE
791X0	Public Affairs Specialist	570 GU
791X1	Radio & TV Broadcasting Specialist	400 GU
791X2	Historian Specialist	570 GU
79199	Public Affairs Superintendent	570 GU
79100	Public Affairs Manager	570 GU
811X0	Security Specialist	070 ML
811X2	Law Enforcement Specialist	830 ML
81199	Security Police Superintendent	830 ML
81100	Security Police Manager	830 ML
821X0	Special Investigations Specialist	832 ML
82100	Special Investigations Manager	832 ML
871X0	Instrumentalist	450 MX
87199	Band Superintendent	450 MX
87100	Band Manager	450 MX
872X0	Instrumentalist, Technician	450 MX
87200	Instrumentalist Manager	450 MX
902X0	Medical Service Specialist	300 GM
902X1	Cardiopulmonary Laboratory Specialist	300 GM
902X2	Surgical Service Specialist	301 GM
90299	Medical Service Superintendent	301 GM
90200	Medical Service Manager	301 GM

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AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ. IDOS
903X0	Radiologic Specialist	313 GM
903X1	Nuclear Medicine Specialist	311 GM
90399	Radiologic Superintendent	313 GM
90300	Radiologic Manager	313 GM
905X0	Pharmacy Specialist	312 GM
90500	Pharmacy Manager	312 GM
906X0	Medical Administrative Specialist	513 JM
90600	Medical Administrative Manager	513 JM
907X0	Environmental Health Specialist	322 GM
90700	Environmental Health Manager	322 GM
908X0	Veterinary Specialist	321 GA
90800	Veterinary Manager	321 GA
911X0	Aerospace Physiology Specialist	322 GM
91100	Aerospace Physiology Manager	322 GM
912X5	Optometry Specialist	300 GM
91200	Optometry Manager	300 GM
913X0	Physical Therapy Specialist	303 GM
913X1	Occupational Therapy Specialist	303 GM
91399	Biomedical Therapy Superintendent	303 GM
91300	Biomedical Therapy Manager	303 GM
914X0	Mental Health Clinic Specialist	302 GM
914X1	Mental Health Unit Specialist	302 GM
91499	Mental Health Service Superintendent	302 GM
91400	Mental Health Service Manager	302 GM
915X0	Medical Materiel Specialist	822 RW
91500	Medical Materiel Manager	822 RW
917X0	Physician Assistant	300 GM
91700	Physician Senior Assistant	300 GM
918X0	Biomedical Equipment Maintenance Specialist	198 PS
91800	Biomedical Equipment Maintenance Manager	198 PS
919X0	Orthotic Specialist	304 GM
91900	Orthotic Manager	304 GM
924X0	Medical Laboratory Specialist	311 GM
924X1	Histopathology Specialist	311 GM
92499	Medical Laboratory Superintendent	311 GM
92400	Medical Laboratory Manager	311 GM
925X0	Cytotechnology Specialist	311 GM
981X0	Dental Assistant Specialist	330 GM
98190	Dental Superintendent	330 GM
98100	Dental Manager	330 GM
982X0	Dental Laboratory Specialist	331 GM
98200	Dental Laboratory Manager	331 GM
99001	Officer Trainee	911 WE
99002	Patient	901 WZ
99005	Airman Awaiting Discharge/Separation/Retirement	920 WZ
99006	Airman Awaiting Retraining	920 WZ
99008	Prisoner	902 WZ
99000	Basic Airman	950 WE
99101	Precadet Assignee	911 WE
99102	Airman Aide	801 MG
99104	Systems Repair Technician	198 PJ

Italicized letters are defined in introductory material.

AIR FORCE ENLISTED

Service Occ.	Title	DoD Occ.	IDOS
99105	Scientific Measurement Technician	531	GK
99106	Scientific Laboratory Technician	491	GA
99107	Senior Enlisted Advisor	521	GY
99501	Research & Development Technician	496	GC
99502	Military Training Instructor	012	GE
99503	United States Air Force Honor Guard	830	MX
99504	LGM-30 Facility Manager	521	GY
99505	Courier	554	RW
99506	Combat Information Monitor	050	GN
99509	Data Formatting Equipment Operator	531	JK
99500	Recruiter	501	GP
99601	Missile Maintenance Manager	122	PJ
99602	Sensor Operator	050	GN
99603	Minuteman NCO Code Controller	510	GN
99604	Postal Specialist	554	RW
99605	Professional Military Education Instructor	012	GE
99607	Medical Squadron Section First Sergeant	521	GY
99608	Alert Facility Controller	250	GN
99600	Student Training Advisor	012	GE
99701	Inflight Passenger Service Specialist	553	GW
99700	Family Support Center Superintendent	500	GP
XXX1X	Helper	950	WE

ARMY COMMISSIONED OFFICER

Service Occ.	Title	DoD Occ.	IDOS
00A	Duties Unassigned	9E	WZ
00B	General Officer	1A	EY
00C	Relieved From Duty, Sick in Hospital or Quarters	9A	WZ
00D	ROTC Officer Awaiting Entry On Active Duty/ACDUTRA	9E	WZ
00E	Student Officer	9B	WE
00F	Permanent Professor or Permanent Associate Professor	1B	CE
11A	• Infantry Officer, General	2E	TA
11B	• Light Infantry Officer	2E	TA
11C	• Mechanized Infantry Officer	2E	TA
12A	• Armor Officer, General	2E	TB
12B	• Armor Unit Officer	2E	TB
12C	• Cavalry Unit Officer	2E	TB
13A	Field Artillery Officer, General	2E	TD
13B	Light Missile Field Artillery Officer	2F	TD
13C	Heavy Missile Field Artillery Officer	2F	TD
13D	Field Artillery Target Acquisition Officer	2E	TD
13E	• Cannon Field Artillery Officer	2E	TD
14A	Air Defense Artillery Officer, General	2G	TD
14B	• SHORAD Officer	2E	TD
14C	Nike Hercules Missile Air Defense Artillery Officer	2F	TD
14D	Hawk Missile Air Defense Artillery Officer	2F	TD
14E	Patriot Air Defense Artillery	2F	TD
14G	Air Defense Artillery Command & Control Officer	2G	TD
15A	• General Aviation	2C	GQ
15B	Combat Aviation	2C	GQ
15C	Combat Support Aviation	2C	GQ
15M	Combat Intelligence Aviation	2C	GQ
15S	Combat Communications Aviation	2C	GQ
21E	Battlefield Support Engineering	2E	TC
21F	Garrison Support Engineering	4A	AC
21G	General Army Support Engineering	4A	AC
21H	Specialized Support Engineering	4A	AC
22A	Topographic Engineering	4M	AC
25A	Communications-Electronics	4C	ET
25B	Teleprocessing Operations	4C	ET
27A	Communications-Electronics Engineer	4C	AC
27B	Communications-Electronics Systems Engineer	4C	AC
30A	Intelligence Management	3A	EI
31A	Law Enforcement Officer	7H	ML
31B	Correctional Officer	7H	ML
31C	Criminal Investigation Officer	7H	ML
31D	Physical Security Officer	7H	ML
35A	Tactical Intelligence	3A	EI
35B	Strategic Intelligence	3A	EI
35C	Imagery Exploitation	3A	EI
36A	Counterintelligence	3C	EI
36B	Human Intelligence	3A	EI
37A	Tactical Signal Intelligence-Electronic Warfare	3B	EI
37B	Strategic Signal Intelligence	3B	EI
41A	Personnel Staff	7C	EP
41B	Recruitment	7C	EP

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296 OCCUPATIONAL CONVERSION MANUAL

ARMY COMMISSIONED OFFICER

Service Occ.	Title	DoD Occ.	IDOS
42A	Administrative & Personnel Systems Management	7C	EP
42B	Postal & Courier Service	7A	EW
42D	Psychological Evaluation	5E	CS
43A	Club Management	8E	MG
43B	Community Services Management	7N	MG
43C	Morale Support	7N	MG
43D	Army Band	7N	MX
44A	Finance & Accounting Officer	7D	EF
44B	Accounting Officer	7D	EF
44C	Disbursing Officer	7D	EF
45A	Comptroller	7D	EF
45B	Program/Budget Officer	7D	EF
45C	Management Officer	7A	EY
46A	Public Affairs Officer	7G	CU
46B	Broadcast Officer	7G	CU
48A	Security Assistance Officer	3A	EY
48B	Psychological Operations Officer	3A	TZ
48C	Attache	3A	EI
48D	Civil Affairs Officer	5D	EY
48E	• Unconventional Warfare Officer	2E	TA
48F	Civil-Military Operations Officer	5D	EY
48G	Politico-Military Affairs Officer	5D	CS
49A	Operations Research/Systems Analysis (OR/SA) Officer	5J	CA
51A	Research & Development Coordinator	5L	EV
51B	Test & Evaluation Officer	4N	EV
52A	Nuclear Weapons Staff	5A	AA
52B	Nuclear Weapons Research	5A	AA
53A	Application Software Analysis & Design	7E	GK
53B	Automated Information Systems Management	7E	GK
54A	Operations, Plans & Training Officer	2G	TZ
54C	Force Development	2G	EY
55A	Judge Advocate	5F	CL
55B	Military Judge	5F	CL
56A	Command & Unit Chaplain	5G	CZ
56D	Clinical Pastoral Educator	5G	CZ
60A	Executive Medicine	6A	CM
60B	Nuclear Medical Officer	6A	CM
60C	Preventive Medicine Officer	6A	CM
60D	Occupational Medicine Officer	6A	CM
60E	General Medical Officer	6A	CM
60F	Pulmonary Disease Officer	6A	CM
60G	Gastroenterologist	6A	CM
60H	Cardiologist	6A	CM
60J	Obstetrician & Gynecologist	6A	CM
60K	Urologist	6A	CM
60L	Dermatologist	6A	CM
60M	Allergist/Clinical Immunologist	6A	CM
60N	Anesthesiologist	6A	CM
60P	Pediatrician	6A	CM
60Q	Pediatric Cardiologist	6A	CM
60R	Child Neurologist	6A	CM

Italicized letters are defined in introductory material

ARMY COMMISSIONED OFFICER

Service Occ.	Title	DoD Occ.	IDOS
60S	Ophthalmologist	6A	CM
60T	Otorhinolaryngologist	6A	CM
60U	Child Psychiatrist	6A	CM
60V	Neurologist	6A	CM
60W	Psychiatrist	6A	CM
60Z	Hematologist	6A	CM
61A	Nephrologist	6A	CM
61B	Medical Oncologist	6A	CM
61C	Endocrinologist	6A	CM
61D	Rheumatologist	6A	CM
61E	Clinical Pharmacologist	6A	CM
61F	Internist	6A	CM
61G	Infectious Disease Officer	6A	CM
61H	Family Physician	6A	CM
61J	General Surgeon	6A	CM
61K	Thoracic Surgeon	6A	CM
61L	Plastic Surgeon	6A	CM
61M	Orthopedic Surgeon	6A	CM
61N	Flight Surgeon	6A	CM
61P	Physiatrist	6A	CM
61Q	Therapeutic Radiologist	6A	CM
61R	Diagnostic Radiologist	6A	CM
61S	Radiologist	6A	CM
61T	Anatomical Pathologist	6A	CM
61U	Pathologist	6A	CM
61V	Clinical Pathologist	6A	CM
61W	Peripheral Vascular Surgeon	6A	CM
61Z	Neurosurgeon	6A	CM
62A	Emergency Physician	6A	CM
63A	Dental Officer	6C	CM
63B	General Dental Officer	6C	CM
63C	Oral Medicine Officer	6C	CM
63D	Periodontist	6C	CM
63E	Endodontist	6C	CM
63F	Prosthodontist, Fixed	6C	CM
63G	Prosthodontist, Removable	6C	CM
63H	Preventive Dentistry/Dental Public Health Officer	6C	CM
63K	Pedodontist	6C	CM
63M	Orthodontist	6C	CM
63N	Oral Surgeon	6C	CM
63P	Oral Pathologist	6C	CM
63R	Executive Dental Officer	6C	CM
64A	Veterinary Services Officer (VSO)	6G	AB
64B	Veterinary Staff Officer	6G	AB
64C	Veterinary Laboratory Animal Medicine Officer	6G	AB
64D	Veterinary Pathologist	6G	AB
64E	Veterinary Microbiologist	6G	AB
64F	Veterinary Comparative Medicine Officer	6G	AB
65A	Occupational Therapist	6H	CM
65B	Physical Therapist	6H	CM
65C	Hospital Dietitian	6H	CM

Italicized letters are defined in introductory material.

ARMY COMMISSIONED OFFICER

Service Occ.	Title	DoD Occ.	IDOS
66A	Nurse Administrator	6E	EM
66B	Community Health Nurse	6F	CM
66C	Psychiatric/Mental Health Nurse	6F	CM
66D	Pediatric Nurse	6E	CM
66E	Operating Room Nurse	6F	CM
66F	Nurse Anesthetist	6F	CM
66G	Obstetric & Gynecologic Nurse	6F	CM
66H	Medical-Surgical Nurse	6F	CM
66J	Clinical Nurse	6E	CM
67A	Health Care Administrator	7M	EM
67B	Field Medical Assistant	7M	EM
67C	Health Services Comptroller	7D	EF
67D	Biomedical Information Systems Officer	7E	GK
67E	Patient Administration Officer	7C	EP
67F	Health Services Personnel Manager	7C	EP
67G	Health Services Manpower Control Officer	7C	EP
67H	Health Services Plans, Operations, Intelligence & Trng. Officer	2G	EM
67J	Aeromedical Evacuation Officer	2C	GQ
67K	Health Services Materiel Officer	8B	EW
67L	Health Facilities Planning Officer	4A	EW
68A	Microbiologist	5C	AB
68B	Nuclear Medical Science Officer	5C	AB
68C	Biochemist	5A	AA
68D	Parasitologist	5C	AB
68E	Immunologist	6H	CM
68F	Clinical Laboratory Officer	6H	CM
68G	Entomologist	5C	AB
68H	Pharmacy Officer	6H	CM
68J	Physiologist	5C	AB
68K	Optometry Officer	6H	CM
68L	Podiatrist	6H	CM
68M	Audiologist	6H	CM
68N	Environmental Science Officer	6H	CM
68P	Sanitary Engineer	4A	AC
68R	Social Work Officer	5H	CZ
68S	Psychologist	5E	CS
68T	Health Services Research Psychologist	5E	CS
68U	Behavioral Science Associate	5E	CS
70A	Logistics Management Officer	8A	EW
71A	Aviation Materiel Management	4D	EW
72A	Communications-Electronics Materiel Management Officer	4B	EW
73A	Missile Materiel Management Officer	4F	EW
74A	Chemical Officer	4K	TZ
75A	Munitions Materiel Management Officer, General	4E	EW
75B	Conventional Munitions Materiel Management Officer	4E	EW
75C	Nuclear Weapons Materiel Management Officer	4E	EW
75D	Explosive Ordnance Disposal Officer	4E	GZ
81A	Petroleum Management Officer	8B	EW
82A	Subsistence Supply Officer	8E	EW
82C	Food Service Officer	8E	MD
82D	Commissary Management Officer	8F	MG

Italicized letters are defined in introductory material.

ARMY COMMISSIONED OFFICER

Service Occ.	Title	DoD Occ. IDOS
91A	Maintenance Management	4N EW
91B	Armanent/Mechanical Maintenance	4N EW
92A	Supply & Services Management Officer	8A EW
92B	Materiel Management Officer	8B EW
92C	Laundry & Bath Officer	8G MG
92D	Aerial Delivery & Materiel Officer	8B EW
92E	Memorial Activities Officer	8G MG
95A	Transportation Management	8C EW
95B	Traffic Management	8C EW
95C	Marine & Terminal Operations Officer	8C EW
95D	Highway/Rail Transportation Officer	8C EW
97A	Procurement Management Officer	8D EW
97B	Procurement Officer	8D EW
97C	Production Officer	8D EW
XXX	Any MOS Held by Officer of General Rank	1A

Italicized letters are defined in introductory material.

ARMY WARRANT OFFICER

Service Occ.	Title
001A	Unqualified in Authorized Warrant Officer MOS
002A	Patient
003A	Student
004A	Duties Unassigned or in Transit
005A	P.O.W.
006A	Missing
007A	Arrest or Confinement
008A	A.W.O.L.
011A	Military Physician's Assistant
021A	Club Manager
031A	Bandmaster
041A	Food Service Technician
051A	Food Inspection Technician
100A	Multiengine Helicopter Pilot
100B	Utility/Observation Helicopter Pilot
100C	Cargo Helicopter Pilot
100D	Heavy Lift Helicopter Pilot
100E	Attack Helicopter Pilot
100K	Multiengine Attack Helicopter Pilot
100Q	Combat Service/Support Fixed Wing Pilot
100R	Combat Surveillance Fixed Wing Pilot
150A	Air Traffic Control Technician
160A	Aviation Maintenance Technician
201A	Meteorology Technician
202A	Biomedical Equipment Repair Technician
211A	Target Acquisition Radar Technician
214E	Missile System Technician, Pershing
214G	Missile System Technician, Lance
221B	Missile Assembly Technician, Nike
222B	Missile Fire Control Technician, Nike
222C	Missile System Technician, Patriot
223B	Missile System Technician, Hawk
224B	Short Range Air Defense System Technician
252A	Calibration & Repair Technician
260A	Nuclear Weapons Technician
271A	Land Combat Missile Systems Repair Technician
285A	Electronic Warfare/Intercept Equipment Repair Technician
286A	Communications-Electronics Equipment Repair Technician
287A	Data Processing Systems Repair Technician
290A	Telecommunications Technician
310A	Utilities Operation & Maintenance Technician
401A	Airdrop Equipment Technician
411A	Ammunition Technician
421A	Armament Repair Technician
441A	Repair Shop Technician
500A	Marine Deck Officer
510A	Marine Engineering Officer
621A	Engineer Equipment Repair Technician
630A	Automotive Repair Technician
711A	Personnel/Administrative Technician
713A	Legal Administrative Technician

Italicized letters are defined in introductory material.

302 OCCUPATIONAL CONVERSION MANUAL

ARMY WARRANT OFFICER

Service Occ.	Title	DoD Occ.	IDOS
741A	Data Processing Technician	7E	GK
761A	General Supply Technician	8B	GW
762A	Support Supply Technician	8B	GW
811A	Photomapping Technician	4M	GC
821A	Survey Technician	4M	GC
833A	Reproduction Technician	8G	GY
841A	Terrain Analysis Technician	4N	GC
951A	Criminal Investigator	7H	ML
961A	Attache Technician	3A	GI
962A	Image Interpretation Technician	3A	GI
964A	Order of Battle Technician	3A	GI
971A	Counterintelligence Technician	3C	GI
972A	Area Intelligence Technician	3A	GI
973A	Interrogation Technician	3A	GI
982A	Traffic Analysis Technician	3B	GI
983A	Emanations Analysis Technician	3B	GI
984A	Morse Intercept Technician	3B	GI
985A	Non-Morse Intercept Technician	3B	GI
986A	Emitter Location/Identification Technician	3B	GI
988A	Voice Intercept Technician	3B	GI

Italicized letters are defined in introductory material.

NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
0002	Staff Medical Officer	6A	EM
0004	Director of Clinical Medical Services	1B	EM
0008	Regional Health Care Coordinator	6A	EM
0010	Chairman of Department, Teaching Hospital	6A	EM
0014	District Medical Officer	6A	EM
0016	Chief of Clinical Services	6A	EM
0020	Chief of Service	6A	EM
0024	Intern	6A	CM
0025	Graduate Medical Education Officer	6A	CM
0030	Medical Research Officer	6A	EV
0045	Flight Surgeon	6A	CM
0048	Head of Medical Department	6A	EM
0051	Emergency Medical Specialist	6A	CM
0070	Primary Care Medical Officer	6A	CM
0090	Undersea Medical Officer	6A	CM
0099	Physician's Assistant	6H	CM
0101	Internist	6A	CM
0105	Pediatrician	6A	CM
0108	Family Practitioner	6A	CM
0111	Dermatologist	6A	CM
0115	Psychiatrist	6A	CM
0118	Anesthesiologist	6A	CM
0121	Neurologist	6A	CM
0125	Physical Medicine & Rehabilitation Officer	6A	CM
0131	Radiologist (Diagnostic)	6A	CM
0135	Radiologist (Therapeutic)	6A	CM
0140	Nuclear Medicine Specialist	6A	CM
0150	Pathologist (Anatomical)	6A	CM
0154	Pathologist (Anatomical & Clinical)	6A	CM
0158	Pathologist (Clinical)	6A	CM
0160	Preventive Medicine Officer	6A	CM
0163	Preventive Medicine Officer (Aerospace)	6A	CM
0166	Preventive Medicine Officer (Occupational)	6A	CM
0169	Preventive Medicine Officer (Public Health)	6A	CM
0214	General Surgeon	6A	CM
0224	Neurosurgeon	6A	CM
0229	Obstetrician-Gynecologist	6A	CM
0234	Ophthalmologist	6A	CM
0244	Orthopedic Surgeon	6A	CM
0249	Otolaryngologist	6A	CM
0254	Plastic Surgeon	6A	CM
0264	Thoracic & Cardiovascular Surgeon	6A	CM
0269	Urologist	6A	CM
0305	Chairman of Department/Chief of Dental Service	6C	EM
0310	Advanced Dental Education Officer	6C	CM
0320	Dental Education Program Officer	6C	CM
0335	Dental Officer General Practitioner	6C	CM
0340	Operative Dentistry Officer	6C	CM
0345	Director of Clinical Dental Services	6C	EM
0360	Staff Dental Officer	6C	CM
0365	Head of Dental Clinic/Dental Department	6C	EM

Italicized letters are defined in introductory material.

304 OCCUPATIONAL CONVERSION MANUAL

NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
0510	Endodontist	6C	CM
0525	Comprehensive Dentist	6C	CM
0530	Maxillofacial Prosthetist	6C	CM
0535	Orthodontist	6C	CM
0545	Oral Diagnostician	6C	CM
0550	Oral Surgeon	6C	CM
0560	Periodontist	6C	CM
0569	Prosthodontist	6C	CM
0575	Public Health/Preventive Dentistry Officer	6C	CM
0580	Oral Pathologist	6C	CM
0590	Dental Sciences & Research Officer	6C	EV
0800	Administrative Officer, Medical Service	7M	EM
0801	Administrative Officer, Dental Service	7M	EM
0808	Patient Affairs Officer	7M	EM
0814	Food Service Officer, Medical Facility	8E	MD
0820	Operations Management Officer, Medical Facility	7M	EM
0822	Medical Facilities Liaison Officer	4A	EW
0829	Staff Medical Service Corps Officer	7M	EM
0830	Staff Medical Service Corps Officer (With Marine Corps)	7M	EM
0840	Biochemist	5A	AA
0841	Microbiologist	5C	AB
0843	Pharmacologist	5A	AA
0845	Radiation Health Officer	5A	EM
0847	Radiation Specialist	5A	AA
0848	Physiologist	5C	AB
0849	Aerospace Physiologist	5C	AB
0851	Clinical Psychologist	5E	CS
0852	Aerospace Experimental Psychologist	5E	CS
0854	Research Psychologist	5E	CS
0860	Entomologist	5C	AB
0861	Environmental Health Officer	6H	CM
0862	Industrial Hygiene Officer	6H	CM
0866	Medical Technologist	6H	CM
0868	Social Worker	5H	CZ
0871	Audiologist	6H	CM
0873	Physical Therapist	6H	CM
0874	Occupational Therapist	6H	CM
0876	Dietitian, Therapeutic	6H	CM
0880	Optometrist	6H	CM
0887	Pharmacist	6H	CM
0892	Podiatrist	6H	CM
0899	Advanced Medical Service Education Officer	6H	CM
0905	Director of Nursing Service	6E	EM
0915	Nursing Service Administrator	6E	EM
0920	Patient Care Coordinator	6E	CM
0925	Clinical Specialist, Nursing	6F	CM
0932	Operating Room Nurse	6F	CM
0935	Outpatient Care Nurse	6F	CM
0940	Charge Nurse	6E	CM
0944	Staff Nurse	6E	CM
0952	Anesthetist Nurse	6F	CM

Italicized letters are defined in introductory material.

NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
0963	Primary Care Nurse Practitioner	6F	CM
0982	Nursing Programs Educational Coordinator	6E	CM
0986	Nursing Instructor	6E	CM
0990	Advanced Nursing Education Officer	6F	CM
0995	Research Nurse	6F	EV
1005	Accounting Officer	7D	EF
1010	Accounting Systems Officer	7D	EF
1015	Auditing Officer	7D	EF
1025	Budget Officer	7D	EF
1040	Disbursing Administration & Records Officer	7D	EF
1045	Disbursing Officer	7D	EF
1050	Comptroller	7D	EF
1055	Fiscal Officer	7D	EF
1105	Mess Treasurer	8E	EF
1130	Food Service Officer	8E	MD
1135	Commissary Store Officer	8F	MG
1160	Food Service Administrator	8E	MD
1205	Air Traffic Officer	8C	EW
1215	Cargo Handling Officer	8C	EW
1242	Passenger Transportation Officer	8C	EW
1245	Household Goods Officer	8C	EW
1265	Freight Traffic Management Officer	8A	EW
1272	Transportation Logistics Officer	8C	EW
1275	Transportation Services Officer	8C	EW
1290	Freight Transportation Officer	8C	EW
1295	Transportation Director	8C	EW
1302	Issue Control Officer	8B	EW
1306	Material Division Officer	8B	EW
1310	Material Handling Equipment Officer	8C	EW
1320	Material Identification Officer	8B	EW
1340	Material Packaging Officer	8B	EW
1345	Naval Supply Control Officer	8B	EW
1350	Storage Planning & Control Officer	8B	EW
1355	Supply Receiving Officer	8B	EW
1360	Property Disposal Officer	8B	EW
1370	Warehouse & Storage Officer	8B	EW
1476	Procurement Management Officer	8D	EW
1480	Procurement Contracting Officer	8D	EW
1485	Administrative Contracting Officer	8D	EW
1515	Inventory Control Methods Officer	8B	EW
1520	Inventory Finance Officer	7D	EF
1530	Stock Control Officer, Requirements	8B	EW
1904	Clothing Officer	8B	EW
1913	Stores Officer	8B	EW
1918	General Supply Officer	8B	EW
1920	Equipment Program Support Officer	8B	EW
1933	Navy Exchange Officer	8F	MG
1940	Fuel Logistics Planning Officer	8A	EW
1946	Fuel Depot Officer	8B	EW
1955	Staff Supply Officer	8B	EW
1874	Supply Field Representative	8B	EW

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
1976	Supply Field Services Officer	8B	EW
1978	Supply Logistics Officer	8A	EW
1984	Supply Plans Officer	8B	EW
1990	Technical Supply Officer (General)	8B	EW
1991	Technical Supply Officer (Aviation)	8B	EW
2035	Materials Engineering Officer	4N	AC
2050	Mathematics Research Officer	5J	CA
2060	Physical Sciences Research Officer	5L	EV
2070	Physicist, General	5A	AA
2071	Physicist, Nuclear	5A	AA
2085	Statistical Data Analyst	5J	CA
2090	Chemist	5A	AA
2098	Space Projects Technologist	5A	AA
2105	Air Warfare Research Officer (General)	5A	EV
2107	Air Warfare Research Officer (Antisubmarine)	5A	EV
2125	Amphibious Warfare Research Officer	5A	EV
2145	Armament Research Officer	5A	EV
2153	Naval Observatory Officer	5A	AA
2155	Naval Sciences Research Coordinator/Administrator	5L	EV
2160	Designated Project Manager	1B	EV
2161	Major Project Manager (Selected)	1B	EV
2162	Deputy Designated Project Manager	1B	EV
2163	Manager, Designated Project Functional Element	1B	EV
2164	Designated Project Business Administrator	7D	EF
2165	Designated Project Systems Integration Coordinator	1B	EV
2166	Designated Project Engineering Coordinator	1B	EV
2167	Designated Project Test & Evaluation Coordinator	4N	EV
2168	Designated Project Integrated Logistics Systems Coordinator	1B	EV
2170	Designated Project Support Officer	7A	EV
2175	Undersea Warfare Research Officer (General)	5A	EV
2176	Undersea Warfare Research Officer (Antisubmarine)	5A	EV
2180	Preoperational Test & Evaluation Officer	4N	EV
2181	Operational Test & Evaluation Officer	4N	EV
2190	Liaison Officer, Naval R&D	5L	EV
2192	Space Acquisition Officer	5A	AA
2240	Language Officer	3B	EI
2245	Psychological Operations Officer	3A	TZ
2250	Behavioral Scientist	5E	CS
2306	Geophysicist	5A	AA
2310	Hydrographic Program Officer	5A	AA
2320	Oceanographic Program Officer	5A	AA
2323	Geophysics Watch Officer	5A	AA
2325	Oceanographic Mapping, Charting, & Publications Distrib. Officer	8G	EY
2335	Staff Geophysics Officer	5A	AA
2340	Naval Oceanographer	5A	AA
2365	Staff Oceanographic Officer	5A	AA
2410	Intragovernmental Inquiries Officer	7G	CU
2412	Public Affairs Officer	7G	CU
2415	Historical Officer	5D	CS
2425	Pictorial Editor	7G	CU
2430	Press Officer	7G	CU

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NAVY OFFICER

Service Occ.	Title
2435	Field Press Censorship Officer
2445	Radio-Television Program Officer
2505	General Attorney
2510	Administrative Law Attorney
2515	Admiralty Attorney
2517	Appellate Military Judge
2518	Appellate Counsel
2520	Claims Attorney
2525	Commercial & Business Law Attorney
2528	International Law Attorney
2530	Legislative Counsel
2535	Legal Assistance Attorney
2545	Patent Attorney
2554	Military Judge, General Courts-Martial
2556	Military Judge, Special Courts-Martial
2557	Trial Counsel
2558	Defense Counsel
2590	Legal Administrative Assistant
2605	Administrative Assistant
2608	Command Management Director
2610	Management Analysis & Control Officer
2612	Management Information Systems Officer
2614	Management Information Center Officer
2615	Administrative Officer
2617	Postal Officer
2625	General Services Officer
2642	Maintenance & Material Management Data Analyst
2670	Records Management Officer
2680	Technical Librarian
2690	Printing & Publications Officer
2715	Disaster Preparedness Officer
2730	Fire Protection Officer
2740	Safety Engineer
2747	Armed Forces Wartime Information Security Program Officer
2748	Security Manager, Information Security Program
2750	Security Director
2765	Nuclear, Biological & Chemical Defense Officer
2775	Security Officer, Shore Activity
2780	Shore Patrol Officer
2790	Aircraft Crash & Salvage Officer
3015	Mobilization & Selection Officer
3020	Procurement & Recruiting Officer
3035	Induction & Enlistment Officer
3120	Personnel Classification Officer
3125	Personnel Distribution Officer (General)
3126	Personnel Distribution Officer (Officer)
3127	Personnel Distribution Officer (Enlisted)
3215	Training Planning & Program Officer (General)
3217	Training Planning & Program Officer (Aviation, Flight)
3219	Training Planning & Program Officer (Aviation, Ground)
3227	Educational Facilities Officer

Italicized letters are defined in introductory material.

NAVY OFFICER

Service Occ.	Title
3230	Educational Services Officer
3236	Ground School Instructor
3240	Officer Candidate Company Officer
3242	Indoctrination Training Officer
3245	Instructor, General
3250	Instructor, Technical
3251	Instructor, Academic (General)
3254	Instructor, Academic (Social Science)
3255	Instructor, Academic (Physical Science)
3260	Instructor, Engineering
3262	Instructor Training Officer
3265	Advanced Command & Staff School Instructor
3270	Instructor, Naval Science
3271	Nuclear Weapons Instructor
3274	Physical Training Officer
3277	Professor of Naval Science
3283	School Administrator
3289	Student Officer
3290	Training Officer
3293	Training Aids Officer
3298	Training Publications & Curriculum Officer
3320	Human Resource Management Officer
3330	Equal Opportunity/Race Relations Program Officer
3350	Counseling & Assistance Center Director
3412	Corrections Officer
3415	Discipline Administration & Review Officer
3420	Personnel Performance Officer (General)
3421	Personnel Performance Officer (Officer)
3422	Personnel Performance Officer (Enlisted)
3520	Music Director
3525	Personal Services/Affairs Officer
3535	Special Services Officer
3545	Internal Relations/Media Officer
3701	General Chaplain
3720	Hospital Chaplain
3730	Training & Special Projects Chaplain
3740	Supervisory Chaplain
3910	Casual Unit Personnel Officer
3925	Military Manpower Requirements Control Officer
3935	Civilian Manpower Management Officer
3943	Manpower Planning Officer
3950	Personnel Research Officer
3955	Personnel Evaluation & Measurements Officer
3965	Personnel/Manpower Management Officer
3970	Personnel Planning Officer
3980	Personnel Plans & Policy Chief
3981	Personnel Plans & Policy Director
3985	Staff Personnel Officer
3990	Leadership Development/Enlisted Retention Officer
3995	Manpower Requirements Determinator Officer
4205	Facilities Engineering Officer

Italicized letters are defined in introductory material.

NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
4210	Staff Civil Engineer	4A	AC
4215	Facilities Planning & Programming Officer	4A	EW
4220	Facilities Design Officer	4A	AC
4225	Facilities Research Officer	4A	AC
4230	Facilities Construction/Facilities Services Officer	4A	AC
4240	Petroleum Production Engineering Officer	4N	AC
4250	Public Works Officer	4A	AC
4255	Public Works Operations Officer	4A	AC
4260	Public Works Maintenance Officer	4A	AC
4265	Public Works Transportation Officer	8C	EW
4270	Public Works Utilities Officer	4A	AC
4275	Public Works Planning Officer	4A	AC
4305	Commanding Officer, Naval Construction Forces	4A	EW
4310	Executive Officer, Naval Construction Forces	4A	EW
4315	Operations Officer, Naval Construction Forces	4A	EW
4330	Company Officer, Naval Construction Forces	4A	EW
4340	Officer in Charge, Naval Construction Battalion Unit	4A	EW
4710	Nuclear Shore Power Systems Engineering or Construction Officer	4A	AC
4715	Nuclear Shore System Officer	4A	AC
5702	Training Devices Administrator	4N	CE
5760	Training Device Program Coordinator (General)	4N	EV
5761	Training Device Program Coordinator (Aviation)	4N	EV
5785	Training Electronic Devices Utilization Officer	7B	CE
5904	Electronics Engineering Officer	4B	AC
5913	Electronic Engineering Plans & Policies Director	4B	EW
5917	Electronic Equipment Research Officer (General)	4B	EV
5918	Electronic Equipment Research Officer (Countermeasures)	4B	EV
5921	Electronic Equipment Research Officer (Aircraft Electronics)	4B	EV
5925	Electronic Installation & Maintenance Planning Officer (General)	4B	EW
5927	Electronic Installation & Maintenance Planning Officer (Aviation)	4B	EW
5930	Space Requirements Analyst	5A	AA
5960	Electronics Inspection & Survey Officer	4B	EW
5961	Aircraft Electronics Director	4B	EW
5963	Electronics Planning, Installation, & Repair Supervisor	4B	EW
5965	Electronics Logistics Officer	8A	EW
5970	Electronic Equipment Military Characteristics Officer	4B	AC
5977	Electronic Equipment Installation, Maintenance & Repair Officer	4B	EW
5980	Electronics Research Administrator	5L	EV
5996	Staff Electronic Material Officer	4B	EW
6083	Ammunition Material Officer	4E	EW
6090	Surface Munitions Project Officer	4E	EV
6270	Guided Missile Systems R&D Officer	5L	EV
6275	Guided Missile Test Officer	2F	EV
6280	Guided Missile Type Project Officer (General)	5L	EV
6281	Guided Missile Type Project Officer (Air-Launched)	5L	EV
6282	Guided Missile Type Project Officer (Ship-Launched)	5L	EV
6283	Guided Missile Type Project Officer (Special Projects)	5L	EV
6305	Armament Proof Officer	4E	EW
6380	Weapons Equipment Project Officer	4E	EV
6457	Fire Control Inspection & Repair Officer	4E	EW
6470	Weapons Control Systems Project Officer (General)	4E	EV

Italicized letters are defined in introductory material.

NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
6472	Weapons Control Systems Project Officer (Surface)	4E	EV
6482	Optical Repair Officer	4E	EW
6503	Degaussing Officer	4B	EW
6516	Mine Assembly & Repair Officer	4E	EW
6537	Torpedo Weapons Officer	4E	EW
6558	Torpedo Test Officer	4E	EW
6582	Undersea Weapons Project Officer (General)	4E	EV
6583	Undersea Weapons Project Officer (Torpedoes)	4E	EV
6584	Undersea Weapons Project Officer (Mines/Depth Charges)	4E	EV
6702	Weapons Distribution Officer	8B	EW
6704	Weapons Maintenance Officer (General)	4E	EW
6705	Weapons Maintenance Officer (Ordnance)	4E	EW
6708	Weapons Maintenance Officer (Aviation)	4E	EW
6708	Weapons Procurement Officer	8D	EW
6715	Weapons Material Officer (General)	4E	EW
6716	Weapons Material Officer (Nuclear)	4E	EW
6717	Program Manager, Weapons Systems	4E	EV
6914	Naval Plant Representative	8D	EW
6917	Nuclear Weapons Research & Development Officer	4E	EV
6920	Weapons Design Officer	4E	EV
6923	Weapons Installation Officer	4E	AC
6930	Naval Weapons Technical Liaison Officer	4E	AC
6936	Weapons Systems Inspection & Survey Officer	4E	EW
6938	Weapons & Ammunition Inspection Officer	4E	EW
6940	Weapons Installation & Repair Superintendent	4E	EW
6942	Weapons Logistics Officer	8A	EW
6948	Weapons Military Characteristics Officer	4E	AC
6958	Metrology Officer	4E	AC
6960	Weapons Officer, Naval Activity	4E	AC
6962	Weapons Planning & Progress Officer	4E	EW
6966	Weapons Plans & Policies Director	4E	EW
6968	Weapons & Ammunition Production Officer	4E	EW
6970	Weapons Production Planning Officer	4E	EW
6974	Weapons Technical Information Officer	4E	EW
6978	Weapons Repair Officer	4E	EW
6980	Weapons Research Planning Officer	5L	EV
6982	Weapons Technical Officer	4E	AC
6990	Weapons Safety Officer	4J	MS
6999	Staff Weapons Material Officer	4E	EW
7120	Naval Engineering Hull Development Officer	4G	AC
7140	Hull Inspection Officer	4G	EW
7165	Hull Superintendent	4G	AC
7187	Staff Hull Material Officer	4G	AC
7215	Diving & Salvage Equipment Engineering Officer	4N	AC
7238	Machinery Inspection Officer	4H	EW
7241	Machinery Installation & Repair Supervisor	4H	EW
7245	Naval Engineering Machinery Development Officer	4H	EV
7249	Nuclear Systems & Components Repair Officer, Ship	4H	EW
7251	Radiological Control Officer	4J	MS
7273	Nuclear Power Research Project Officer	4N	EV
7285	Staff Machinery Material Officer	4H	EW

Italicized letters are defined in introductory material.

NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
7330	Engineering Material Planning & Procurement Officer	8D	EW
7358	Fuels & Lubricants Technical Officer	4N	AC
7410	Industrial Engineer	4N	AC
7420	Ship Type Planning & Estimating Superintendent	4G	EW
7435	Quality Assurance Superintendent	4N	AC
7445	Production Engineering Officer	8D	EW
7450	Shop Production Officer	8D	EW
7460	Shop Superintendent	8D	EW
7901	Ship Activation/Inactivation Officer	4G	AC
7910	Engineering Liaison Officer	4G	AC
7927	Naval Engineering Inspection Officer	4G	EW
7930	Ship Electrical Repair Officer	4B	EW
7931	Naval Engineering Logistics Officer	8A	EW
7936	Ship Construction & Repair Superintendent (General)	4G	AC
7937	Ship Construction & Repair Superintendent (Surface Ships)	4G	AC
7938	Ship Construction & Repair Superintendent (Submarines)	4G	AC
7939	Ship Construction & Repair Superintendent (Nuclear)	4G	AC
7959	Naval Engineering Research Project Officer	5L	EV
7966	Naval Engineering Trials & Survey Officer	4G	AC
7968	Nuclear Power Superintendent	4N	AC
7970	Yard Planning Officer	4G	EW
7974	Naval Engineering Officer, Ship Design	4G	AC
7976	Ship Repair Officer	4G	EW
7984	Ship Type Engineering Officer	4G	AC
7996	Supervisor of Shipbuilding, Conversion, & Repair	8D	EW
7997	Yard Production Officer	4G	EW
7998	Combat Systems Superintendent	4G	AC
7999	Technical Assistant For Weapons	4E	AC
8002	Aerodynamics Engineering Officer	4D	AC
8004	Aeronautical Engineering Officer, A/C Mech. & Safety Equipment	4D	AC
8010	A/C Electrical Equipment Installation Design & Dvltmt. Officer	4B	AC
8015	Aircraft Armament Development Officer	4E	EV
8018	Aircraft Production Officer	4D	EW
8024	Aircraft Structures Engineering Officer	4D	AC
8026	Aircraft Test Engineer	4D	AC
8035	Aircraft/Guided Missile Engine Project Officer	4D	EV
8050	Launching, Recovery & Landing Aids Engineering Officer	4D	AC
8055	Aeronautical Propulsion Systems Engineer	4D	AC
8074	Ground Support Equipment & Ship Facilities Arrangement Officer	4D	AC
8076	Type Aircraft Design & Development Officer	4D	EV
8112	Aviation Maintenance Field Representative	4D	EW
8115	Aviation Maintenance Management Engineer	7A	EW
8116	Aviation Maintenance Planning Officer	4D	EW
8118	Aviation Maintenance Engineering Officer	4D	EW
8125	Aviation Overhaul Schedules Officer	4D	EW
8137	Catapult & Arresting Gear Planning Superintendent	4D	EW
8141	Depot Maintenance Engineering & Quality Officer	4D	EW
8152	Depot Maintenance Production Officer	4D	EW
8167	Depot Maintenance Flight Test Officer	4D	EW
8175	Aircraft Intermediate Maintenance/Material Control Officer	4D	EW
8176	Aircraft Organizational Maintenance/Material Control Officer	4D	EW

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
8177	Aircraft Maintenance Quality Control Officer	4D	EW
8180	Air Wing Maintenance Officer	4D	EW
8189	Aircraft Intermediate Maintenance Officer, General	4D	EW
8190	Aircraft Organizational Maintenance Officer, General	4D	EW
8191	Aircraft Intermediate Maintenance Officer, Powerplants	4D	EW
8192	Aircraft Intermediate Maintenance Officer, Airframes	4D	EW
8193	Aircraft Intermediate Maintenance Officer, Armament Equipment	4D	EW
8194	Aircraft Intermediate Maintenance Officer, Aviator's Equipment	4D	EW
8195	Aircraft Intermediate Maintenance Officer, Support Equipment	4D	EW
8196	Aircraft Organizational Maintenance Officer, Line Division	4D	EW
8197	Aircraft Organizational Maintenance Officer, A/C Division	4D	EW
8198	Aircraft Intermediate Maintenance Officer, Avionics	4D	EW
8199	Aircraft Organizational Maintenance Officer, Avionics/Weapons Div	4D	EW
8505	Airborne Tactical Data System-CIC Officer	2D	GQ
8506	Carrier Airborne Combat Information Center Officer	2D	GQ
8507	Airborne Radar Intercept Officer	2D	GQ
8508	Airborne Antisubmarine Warfare Tactical Coordinator	2D	GQ
8510	Airborne Antisubmarine Warfare Sensor Officer	2D	GQ
8515	Anti-Submarine Pilot	2A	GQ
8516	Light Attack Pilot	2A	GQ
8517	Heavy Attack Pilot	2A	GQ
8520	Bombardier/Navigator	2D	GQ
8522	Copilot, Patrol Bomber, Land-Based	2A	GQ
8528	Fighter Pilot	2A	GQ
8538	Helicopter Pilot	2C	GQ
8539	Helicopter Antisubmarine Pilot	2C	GQ
8543	Instrument Flight Instructor-Pilot	2B	GQ
8557	Navigator, Aerial	2D	GQ
8561	Airborne Early Warning Pilot	2B	GQ
8562	Electronic Countermeasures Pilot	2B	GQ
8563	Navigator/Electronic Countermeasures Officer	2D	GQ
8564	Airborne Communications Officer	4C	ET
8571	Patrol Plane Commander, Multiengine Land Plane	2A	GQ
8581	Photographic Pilot	2B	GQ
8583	Special Project Pilot	2B	GQ
8585	Special Project Airborne Electronics Evaluator	2D	GQ
8586	Airborne Multisensor Ocean Reconnaissance Coordinator	2D	GQ
8588	Test Pilot	2B	GQ
8591	Naval Flight Officer Instructor, Training Planes	2D	GQ
8592	Flight Instructor, Training Planes	2B	GQ
8593	Flight Instructor-Pilot, Fleet Operational Aircraft	2B	GQ
8594	Flight Instructor-NFO, Fleet Operational Aircraft	2D	GQ
8596	Transport Plane Commander	2B	GQ
8597	Carrier On-Board Delivery Pilot	2B	GQ
8598	Transport Plane Copilot	2B	GQ
8599	Utility Pilot	2B	GQ
8602	Aerial Mining Officer	2G	TZ
8604	Air Antisubmarine Officer	2G	TZ
8606	Antisubmarine Classification & Analysis Officer, Aviation	2G	TZ
8608	Air Boatswain	2G	TZ
8614	Catapult & Arresting Gear Officer	2G	TZ

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
8618	Air Officer	2G	TZ
8620	Air Operations Officer, Alloat	2G	TZ
8621	Strike Operations Officer	2G	TZ
8625	Aircraft Handling Officer	2G	TZ
8632	Electronic Warfare Officer, Aviation	2G	TZ
8638	Aircraft Fueling Officer	8B	EW
8644	Radar Air Traffic Control Center Officer	2G	GG
8645	Radar Air Traffic Control Center Watch Officer	2G	GG
8647	Air Traffic Control Officer	2G	GG
8653	Officer in Charge, Aviation Unit or Detachment	2E	TZ
8654	Flight Deck Officer	2G	TZ
8656	Aviation Safety Officer	4J	MS
8658	Controlled Approach Officer	2G	GG
8659	Guided Missile Test Officer, Air-Launched	4F	EV
8660	Hanger Deck Officer	2G	TZ
8662	Landing Signal Officer	2G	GG
8666	Operations Log Officer	2G	TZ
8668	Operations Officer, Aviation Shore Activity	2G	TZ
8670	Squadron Commanding Officer	2A	GQ
8672	Squadron Executive Officer	2A	GQ
8673	Squadron Special Missions Officer	2G	TZ
8674	Squadron Flight Officer	2G	TZ
8678	Squadron Navigation Officer	2G	TZ
8680	Squadron Operations Officer	2G	TZ
8682	Squadron Communications Officer	4C	ET
8684	Squadron Schedule Officer	2G	TZ
8685	Staff Air Operations & Planning Officer	2G	TZ
8686	Survival Officer	2G	TZ
8687	Staff Air Defense Officer	2G	TZ
8692	Squadron Weapons Training Officer	7B	GE
8696	Navigation Air Trng. & Operating Procedures Standardization Off.	7B	CE
8712	Meteorological & Oceanographic Equipment Tech. Liaison Officer	5B	AA
8715	Meteorological Officer	5B	AA
8718	Meteorological Research & Development Officer	5B	EV
8730	Staff Meteorological Officer	5B	AA
8804	Motion Picture & Television Project Officer	7F	CU
8808	Film Control Officer	7F	CU
8815	Image Forming Systems Maintenance Officer	4N	EW
8847	Photographic Material Officer	7F	CU
8853	Photographic Officer	7F	CU
8925	Aircraft Material Control & Allocation Officer	8A	EW
8950	Aviation Tactical Readiness Officer	4D	EW
8960	Navy Airspace Officer	2G	TZ
8972	Staff Air Tactical Officer	2G	TZ
8976	Target Aircraft Controller	2G	GN
8995	Staff Aviation Safety Officer	4J	MS
9005	Commander, Operating Forces Command	1B	TZ
9006	Commander, Operating Forces (Selected)	1B	TZ
9009	Area Commander	1B	TZ
9015	Chief of Staff	1B	EY
9018	Chief Staff Officer	1B	EY

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
9018	Convoy Commodore	1A	TZ
9019	Operations Officer, Convoy Commodore Staff	2G	TZ
9021	Flag Lieutenant	7A	EY
9025	Advisor To Command in Combat	2G	TZ
9034	Staff Administration Officer	7A	EY
9038	Staff Special Projects Operations Officer	2G	TZ
9040	Staff Antisubmarine Officer	2G	TZ
9042	Staff Combat Information Center Officer	2G	GN
9044	Staff Naval Control of Shipping Officer	2G	EW
9045	Staff Operations Command Center Watch Officer	2G	TZ
9046	Staff Electronic Warfare Officer	2G	TZ
9050	Shipping Control Officer	2G	EW
9051	Logistics Officer	8A	EW
9052	Military Assistance Programs Officer	7D	EY
9053	Staff Weapons Officer	2G	TZ
9059	Staff Liaison Officer	2G	TZ
9060	Staff Command & Control Officer	2G	TZ
9062	Amphibious Operations Officer	2G	TZ
9063	Staff Material Officer	4G	EW
9064	Staff Mine Warfare Officer	2G	TZ
9065	Staff Operations & Plans Officer	2G	TZ
9066	Anti-Air Warfare Operations Officer	2G	TZ
9067	Staff Readiness Officer (General)	2G	TZ
9068	Staff Readiness Officer (Aviation)	2G	TZ
9069	Staff Readiness Officer (Weapons)	2G	TZ
9070	Staff Readiness Officer (Engineering)	2G	TZ
9071	Staff Readiness Officer (Seamanship)	2G	TZ
9072	Staff Readiness Officer (Damage Control)	2G	TZ
9073	Staff Readiness Officer (Tactics)	2G	TZ
9074	Staff Readiness Officer (Communications)	2G	TZ
9075	Staff Readiness Officer (Combat Information Center)	2G	TZ
9076	Staff Readiness Officer (Antisubmarine Warfare)	2G	TZ
9077	Staff Readiness Officer (Submarine Warfare)	2G	TZ
9078	Staff Readiness Officer (Amphibious Warfare)	2G	TZ
9079	Staff Readiness Officer (Electronic Warfare)	2G	TZ
9080	Staff Nuclear Weapons Officer	2G	TZ
9082	Flag Secretary	7A	EY
9084	Staff Submarine Warfare Officer	2G	TZ
9085	Operations Analyst	2G	CA
9086	Strategic Plans Officer	2G	TZ
9087	Staff Plans Officer	2G	TZ
9202	Gunnery/Ordnance Officer	2E	TD
9206	Antisubmarine Weapons Officer	2E	TD
9209	Offshore Control & Surveillance System Officer	2G	GN
9212	Boat Group Officer	2E	TB
9214	Air Intercept Controller Supervisor	2G	GN
9215	Antisubmarine Air Controller	2G	GN
9216	CIC Officer	2G	GN
9217	Naval Tactical Data System-Combat Information Center Officer	2G	GN
9220	Combat Information Center Watch Officer	2G	GN
9222	Commanding Officer, Alloat	2E	TZ

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
9225	NTDS—CIC Watch Officer, CCA Controller	2G	GN
9226	NTDS—CIC Watch Officer, Intercept Controller	2G	GN
9227	NTDS—CIC Watch Officer, Surface/Subsurface Operations	2G	GN
9228	Executive Officer, Afloat	2E	TZ
9230	Explosive Ordnance Disposal Officer	4E	GZ
9233	Commanding Officer, Afloat (Lieutenant)	2E	TZ
9234	Commanding Officer, Afloat (Lieutenant Commander)	2E	TZ
9235	Commanding Officer, Afloat (Commander)	2E	TZ
9236	Commanding Officer, Afloat (Captain)	2E	TZ
9237	Fire Control Officer (General)	2E	TD
9238	Fire Control Officer (Surface-To-Air Missiles)	2F	TD
9242	First Lieutenant, Afloat	2G	TZ
9245	Guided Missile Test Officer, Surface-Launched	4F	EV
9246	Missile Systems Officer (General)	2F	TD
9247	Missile Systems Officer (Surface-To-Air Missiles)	2F	TD
9250	Division Officer, Weapons Department (General)	2E	TD
9252	Division Officer, Weapons Department (Gunnery)	2E	TD
9253	Division Officer, Weapons Department (Antisubmarine Weapons)	2E	TD
9254	Division Officer, Weapons Department (Guided Missiles)	2F	TD
9255	Surface Ship Watch/Division Officer (Basic)	2E	TZ
9258	Weapons Officer (General)	2E	TD
9259	Weapons Officer (Fleet Ballistic Missiles)	2F	TD
9261	Combat Systems Officer	2E	TZ
9266	Military Department Officer	8C	EW
9268	Minesweeping Officer	2G	TZ
9270	Mining Officer	2E	TZ
9272	Naval Gunfire Liaison Officer	2G	GN
9273	Officer in Charge, Afloat	2E	RR
9274	Operations Officer, Afloat (General)	2G	TZ
9275	Operations Officer, Afloat (Naval Tactical Data Systems)	2G	TZ
9278	Ship's Boatswain	2G	TZ
9279	Officer in Charge, Combat Craft	2E	TZ
9282	Ship's Electronic Warfare Officer	2G	TZ
9283	Ship's Electronic Material Officer	4B	EW
9284	Ship's Navigator (General)	2G	TZ
9285	Ship's Navigator (Inertial Systems)	2G	TZ
9286	Ship's Secretary	7A	EY
9288	Ship's Transportation Officer	8C	EW
9289	Special Weapons Unit Officer	4E	EW
9290	Commanding Officer, Special Warfare Team	2E	TA
9291	Executive Officer, Special Warfare Team	2E	TA
9292	Special Weapons Technical Repair Officer	4E	EW
9293	Sea-Air-Land Officer	2E	TA
9294	Underwater Demolition Team Officer	2E	TA
9296	Special Weapons Assembly Officer (General)	4E	EW
9297	Special Weapons Assembly Officer (Electrical-Electronic)	4E	EW
9298	Special Weapons Assembly Officer (Mechanical)	4E	EW
9299	Special Weapons Assembly Officer (Nuclear)	4E	EW
9302	Auxiliary Machinery Officer	4H	RR
9305	Boiler Officer (General)	4H	RR
9306	Boiler Officer (1200 PSI Steam System)	4H	RR

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
9308	Damage Control Assistant	4G	EW
9312	Diving Officer (General)	4N	GZ
9313	Diving Officer (Deep Sea, He02)	4N	GZ
9314	Diving Officer (Ship Salvage)	4N	GZ
9315	Diving Officer (Saturation)	4N	GZ
9322	Deep Submergence Vehicle Operator	4N	RR
9335	Main Propulsion Assistant (General)	4H	RR
9336	Main Propulsion Assistant (Diesel)	4H	RR
9337	Main Propulsion Assistant (Gas Turbine)	4H	RR
9341	Main Propulsion Assistant (Steam)	4H	RR
9342	Main Propulsion Assistant (1200 PSI Steam System)	4H	RR
9343	Underway Replenishment Equipment Maintenance Officer	4H	EW
9345	Examiner, Surface Ship Propulsion Plant	4H	EW
9348	Repair Division Officer	4G	EW
9353	Ship's Electrical Officer	4B	EW
9362	Ship's Engineer Officer (General)	4H	RR
9363	Ship's Engineer Officer (Diesel)	4H	RR
9364	Ship's Engineer Officer (Gas Turbine)	4H	RR
9369	Ship's Engineer Officer (Steam)	4H	RR
9370	Ship's Engineer Officer (1200 PSI Steam System)	4H	RR
9371	Ship's Engineer Officer, Nuclear (General)	4H	RR
9372	Ship's Engineer Officer, Nuclear (Main Propulsion)	4H	RR
9373	Ship's Engineer Officer, Nuclear (Damage Control)	4H	RR
9374	Ship's Engineer Officer, Nuclear (Electrical)	4B	EW
9375	Ship Salvage Operations Officer	4N	EW
9378	Main Engine Officer (General)	4H	RR
9384	Main Engine Officer (Steam)	4H	RR
9385	Main Engine Officer (1200 PSI Steam System)	4H	RR
9390	Staff Engineer Officer	2G	TZ
9392	Ship's Reactor Officer	4H	RR
9393	Ship's Reactor Mechanical Assistant	4H	RR
9394	Ship's Reactor Control Assistant	4H	RR
9395	Engineering Maintenance Officer, 1200 PSI Steam	4H	EW
9404	Fleet Composite Operational Readiness Group Officer	2E	TZ
9405	Beachmaster	2E	TB
9420	Officer in Charge, Naval Shore Activity	1B	EY
9421	Commander/Commanding Officer, Shore Activity	1B	EY
9422	Commanding Officer, Naval Shore Activity (Selected)	1B	EY
9424	Naval Control of Shipping Officer	8C	EW
9430	Drydocking Officer (General)	4G	EW
9431	Drydocking Officer (Floating Drydocks)	4G	EW
9436	Executive Officer, Shore Activity	1B	EY
9442	Facilities Manager	4A	EW
9450	Inshore Undersea Warfare Officer	2G	TZ
9462	Civil Affairs Officer	5D	EY
9464	Ocean Systems Operations Officer	5A	AA
9465	Ocean Systems Watch Officer	5A	AA
9466	Operations Officer, Ashore	8C	EW
9467	Shipping Operations Officer	8C	EW
9470	Commanding Officer, Military Sealift Command Office	1B	EW
9471	Executive Officer, Military Sealift Command Office	1B	EW

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
9473	Military Sealift Command Representative	1B	EW
9476	Port Services Officer	8C	EW
9478	Movement Reporting Officer	8C	EW
9480	Search & Rescue Officer	2G	TZ
9485	Ship Plot Officer	8C	TZ
9486	Operations Control Center Briefing Officer	2G	TZ
9497	Yard Boatswain	8C	EW
9510	Communication Officer, Ashore	4C	ET
9512	Automated Message Processing Exchange Officer	4C	ET
9515	Communication Plans & Operations Officer	4C	ET
9517	Communication Security Officer	3C	EI
9525	Communication Watch Officer	4C	ET
9528	Cryptosecurity Officer	3C	EI
9530	Cryptoboard Officer	3B	EI
9535	Custodian of CMS (Comm. Security Material System) Material	7A	EW
9537	Frequency Plans & Assignment Officer	4C	ET
9543	Director of Communications	4C	ET
9545	Naval Control of Shipping Communication Officer, Afloat	4C	ET
9550	Naval Control of Shipping Communication Officer, Ashore	4C	ET
9555	Armed Forces Courier Service Officer	7A	EW
9560	Satellite Communications Officer	4C	ET
9565	Radio Officer	4C	ET
9567	Radio Station Officer	4C	ET
9575	Circuit Control Officer	4C	ET
9580	Communications Security Material Issuing Officer	7A	EW
9582	Communications Officer, Afloat	4C	ET
9585	Signal Officer	2G	ET
9590	Staff Communications Officer	4C	ET
9595	Communications Traffic Officer	4C	ET
9600	Intelligence Officer, Basic	3A	EI
9616	Intelligence Support Officer	3C	EI
9617	Intelligence Investigations Officer	3C	EI
9620	Geographic Area Intelligence Officer	3A	EI
9635	Naval Attache (Assistant)	3A	EI
9640	Operational Intelligence Officer (General)	3A	EI
9650	Electronic Intelligence Officer	3B	EI
9651	Automatic Data Processing Intelligence Officer	3A	EI
9660	Scientific & Technical Intelligence Officer	3A	EI
9670	Operational Intelligence Officer (Management)	3A	EI
9680	Operational Intelligence Officer (Analyst)	3A	EI
9682	Tactical Intelligence Officer	3A	EI
9683	Photographic Intelligence Officer	3A	EI
9684	Multisensor Intelligence Officer	3A	EI
9686	Antisubmarine Warfare Intelligence Officer	3A	EI
9705	ADP System Director	7E	GK
9710	ADP Programs Officer	7E	GK
9715	ADP Production Officer	7E	GK
9720	ADP Plans Officer	7E	GK
9725	Documentation & Program Control Officer	7E	GK
9730	Data Base Management Officer	7E	GK
9735	Computer Systems Analyst	7E	GK

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NAVY OFFICER

Service Occ.	Title	DoD Occ.	IDOS
9740	Digital Computer System Programmer	7E	GK
9745	ADP Systems Maintenance Officer	4B	EW
9750	ADP Customer Liaison Officer	7E	GK
9781	ADP Systems Security Officer	3C	EI
9810	Head of Naval Security Group Department	1B	EI
9815	Operations Officer, Naval Security Group	3B	EI
9817	Operations Watch Officer, Naval Security Group	3B	EI
9820	Manual Morse Collection Officer	3B	EI
9822	Non-Morse Collection Officer	3B	EI
9825	Information Processing & Reporting Officer, Naval Security Group	3B	EI
9830	High Frequency Direction Finding Net Control Officer	3B	EI
9835	High Frequency Direction Finding Analysis Officer	3B	EI
9840	Electronics Intelligence Technical Guidance Unit Officer	3B	EI
9845	Classic Wizard Operations Officer	3B	EI
9850	Direct Support Coordinator Naval Security Group	3B	EI
9851	Direct Support Officer, Naval Security Group (Surface)	3B	EI
9852	Direct Support Officer, Naval Security Group (Air)	3B	EI
9853	Direct Support Officer, Naval Security Group (Subsurface)	3B	EI
9860	Naval Security Group Special Operations Officer	3B	EI
9905	Atomic Energy Plans & Policies Officer (General)	1B	EY
9906	Atomic Energy Plans & Policies Officer (Atomic Tests)	1B	EY
9907	Atomic Energy Plans & Policies Officer (Nuclear Weapons)	1B	EY
9908	Atomic Energy Plans & Policies Officer (Nuclear Power)	1B	EY
9920	Examiner, Reactor Safeguards	4J	MS
9930	Executive Assistant	7A	EY
9935	Alde	7A	EY
9940	Head of Naval Mission	1B	EI
9942	International Affairs Officer	5D	CS
9950	Military Sealift Command Commander	1B	EW
9960	Inspector General	7L	CZ
9965	Inspector, Technical	7L	CZ
9970	Plans & Policies Chief	1B	EY
9980	Plans & Policies Director	1B	EY
9981	Naval Plans & Policies Director, Naval Command Systems	1B	EY
9990	Joint Strategic Plans & Policy Officer	2G	TZ
9992	Deputy/Vice Commander	1B	EY
XXXX	Any NOBC Held by Officer of Flag Rank	1A	

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MARINE CORPS OFFICER

Service Occ.	Title	DoD Occ.	IDOS
0107	Civil Affairs Officer	5D	CS
0160	Postal Officer	7A	EW
0170	Administrative Officer	7A	EY
0180	Adjutant	7A	EY
0202	Intelligence Officer	3A	EI
0205	Tactical Intelligence Officer	3A	EI
0210	Counterintelligence Officer	3C	EI
0240	Imagery Interpretation Officer	3A	EI
0250	Interrogation-Translation Officer	3A	EI
0302	Infantry Officer	2E	TA
0402	Logistics Officer	8A	EW
0410	Maintenance Management Officer	8A	EW
0430	Embarkation Officer	8A	EW
0802	Field Artillery Officer	2E	TD
0803	Survey & Meteorological Officer	4M	AA
0840	Naval Gunfire Planner	2G	GN
0845	Naval Gunfire Spotter	2G	GN
1120	Utilities Officer	4A	EW
1302	Engineer Officer	2E	TC
1305	Shore Party Officer	4A	EW
1310	Engineer Equipment Officer	4L	EW
1330	Facilities Management Officer	4A	EW
1360	Construction Officer	4A	EW
1390	Bulk Fuel Officer	8B	EW
1402	Mapping Officer	4M	AA
1502	Reproduction Officer	8G	EY
1802	Tank Officer	2E	TB
1803	Assault Amphibian Vehicle Officer	2E	TB
2102	Ordnance Officer	4E	EW
2110	Tracked Vehicle Maintenance Officer	4L	EW
2120	Weapons Repair Officer	4E	EW
2125	Electro-Optic Instrument Repair Officer	4E	EW
2305	Explosive Ordnance Disposal Officer	4E	GZ
2340	Ammunition Officer	8B	EW
2502	Communication Officer	4C	ET
2505	Telecommunication Systems Officer	4C	ET
2602	Signals Intelligence/Electronics Warfare Officer	3B	EI
2802	Electronics Maintenance Officer (Ground)	4C	EW
2805	Data/Communications Maintenance Officer	4C	EW
2810	Telephone Systems Maintenance Officer	4C	EW
2820	Calibration Officer	4C	EW
2830	Ground Radar Maintenance Officer	4C	EW
3002	Ground Supply Officer	8B	EW
3010	Ground Supply Operations Officer	8B	EW
3040	Contracting Officer	8D	EW
3050	Warehousing Officer	8B	EW
3060	Aviation Supply Officer	8B	EW
3070	Aviation Supply Operations Officer	8B	EW
3102	Traffic Management Officer	8C	EW
3302	Food Services Officer	8E	MD
3402	Disbursing Officer	7D	EF

Italicized letters are defined in introductory material.

MARINE CORPS OFFICER

Service Occ.	Title	DoD Occ.	IDOS
3406	Financial Accounting Officer	7D	EF
3410	Auditing Officer	7D	EF
3415	Financial Management Officer	7D	EF
3502	Motor Transport Officer	8C	EW
3510	Motor Transport Maintenance Officer	4L	EW
4002	Data Systems Officer	7E	GK
4006	Data Systems Operations Officer	7E	GK
4010	Data Systems Software Officer	7E	GK
4130	Marine Corps Exchange Officer	8F	MG
4302	Public Affairs Officer	7G	CU
4330	Historical Officer	5D	CS
4401	Student Judge Advocate	5F	CL
4402	Judge Advocate	5F	CL
4420	Legal Services Officer	5F	CL
4430	Legal Administrative Officer	5F	CL
4602	Training & Audiovisual Support Officer	7F	CU
5502	Band Officer	7N	MX
5505	Drum & Bugle Corps Officer	7N	MX
5702	Nuclear, Biological & Chemical Defense Officer	2G	TZ
5710	Marine Wing Weapons Unit Officer	4E	EW
5715	Nuclear & Chemical Weapons Employment Officer	2G	TZ
5720	Ground Nuclear Weapons Assembly Officer	4E	EW
5803	Military Police Officer	7H	ML
5804	Corrections Officer	7H	ML
5805	Criminal Investigation Officer	7H	ML
5902	Electronics Maintenance Officer (Aviation)	4C	EW
5907	Ground Launched Missile System Maintenance Officer	4F	EW
5910	Aviation Radar Maintenance Officer	4C	EW
5950	Air Traffic Control System Maintenance Officer	4D	EW
5970	Data Systems Maintenance Officer	4B	EW
6002	Aircraft Maintenance Officer	4D	EW
6005	Aeronautical Engineer	4D	AC
6007	Flight Equipment Officer	4D	EW
6302	Avionics Officer	4B	EW
6502	Aviation Ordnance Officer	4E	EW
6802	Weather Service Officer	5B	AA
7002	Airfield Services Officer	2G	EW
7204	Anti-Air Warfare Officer	2E	TD
7207	Forward Air Controller	2G	GN
7208	Air Support Control Officer	2G	GN
7210	Air Defense Control Officer	2G	GN
7277	Weapons & Tactics Instructor-Air Control	2G	GN
7320	Air Traffic Control Officer	2G	GG
7330	Radar Approach Controller	2G	GG
7380	Aerial Navigation Officer	2D	GQ
7500	Basic Pilot VMA	2A	GQ
7501	Pilot VMA A-4	2A	GQ
7508	Pilot VMA-AV-8	2A	GQ
7510	Basic Pilot VMA (AW)	2A	GQ
7511	Pilot VMA (AW) A-6	2A	GQ
7520	Basic Pilot VMFA	2A	GQ

Italicized letters are defined in introductory material.

MARINE CORPS OFFICER

Service Occ.	Title	DoD Occ.	IDOS
7522	• Pilot VMFA/F-4N/J/S	2A	GQ
7523	• Pilot VMFA F/A-18	2A	GQ
7540	• Basic Pilot VMAQ/VMFP	2A	GQ
7542	• Pilot VMAQ/EA-6A	2A	GQ
7543	• Pilot VMAQ/EA-6B	2A	GQ
7545	• Pilot VMFP/RF-4B	2A	GQ
7550	• Basic Pilot VMGR	2B	GQ
7551	• Pilot VMGR C-9	2B	GQ
7552	• Pilot VMGR TC-4C	2B	GQ
7553	• Pilot VMGR C-117	2B	GQ
7554	• Pilot VMGR C-118	2B	GQ
7556	• KC-130 Co-Pilot (T2P/T3P)	2B	GQ
7557	• KC-130 Aircraft Commander	2B	GQ
7558	• Pilot VMGR C-131	2B	GQ
7559	• Pilot VMGR CT-39	2B	GQ
7560	• Basic Pilot HMH/M/L/A	2C	GQ
7562	• Pilot HMH/M/L/A CH-46	2C	GQ
7563	• Pilot HMH/M/L/A UH-1	2C	GQ
7564	• Pilot HMH/M/L/A CH-53	2C	GQ
7565	• Pilot HMH/M/L/A AH-1	2C	GQ
7566	• Pilot HMH CH-53E	2C	GQ
7575	• Basic Pilot VMO	2B	GQ
7576	• Pilot VMO/OV-10	2B	GQ
7577	• Weapons & Tactics Instructor	2A	GE
7580	• Flight Officer Student	9B	WE
7581	• Basic Naval Flight Officer	2D	GQ
7583	• Bombardier-Navigator A-6	2D	GQ
7584	• Electronics Warfare Officer, EA-6A	2D	GQ
7585	• Airborne Reconnaissance Officer RF-4B	2D	GQ
7586	• EW/Airborne Reconnaissance Officer EA-6A/RF-4B	2D	GQ
7587	• Airborne Radar Intercept Officer F-4N/J/S	2D	GQ
7588	• Electronics Warfare Officer, EA-6B	2D	GQ
7590	• Landing Signal Officer-Trainee	9B	WE
7591	• Naval Flight Officer (VMAW)	2D	GQ
7592	• Pilot VMAW	2A	GQ
7593	• Landing Signal Officer, Phase I & II	2G	GN
7594	• Landing Signal Officer, Phase III	2G	GG
7595	• Test Pilot/Flight Test Project Officer	2B	GQ
7596	• Aviation Safety Officer	4J	MS
7597	• Basic Rotary Wing Pilot	2C	GQ
7598	• Basic Fixed Wing Pilot	2B	GQ
7599	• Flight Student	9B	WE
9602	• Education Officer	5K	CE
9620	• Aeronautical Engineer	4D	AC
9622	• Chemical Engineer	5K	CE
9624	• Electronics Engineer	4B	AC
9626	• Ordnance System Engineer	4E	AC
9628	• Computer Engineer	7E	GK
9630	• Industrial Engineer	4N	AC
9632	• Nuclear Engineer	4N	AC
9634	• Electronic Warfare Systems Officer	4B	EW

Italicized letters are defined in introductory material.

MARINE CORPS OFFICER

Service Occ.	Title	DoD Occ.	IDOS
9636	Communications Engineer	4C	AC
9640	Management Officer	7C	EY
9644	Financial Management Specialist	7D	EF
9646	Data Systems Specialist	7E	GK
9648	Management, Data Systems Officer	7E	GK
9650	Operations Analyst	5J	CA
9652	Defense Systems Analyst	5J	CA
9654	Research & Development Officer	5L	EV
9656	System Acquisition Management (SAM) Officer	4E	EW
9658	Command, Control, & Communications (C3) Systems Officer	4C	ET
9660	Communication Manager	4C	ET
9662	Material Management Officer	7E	EW
9670	Statistics Officer	5J	CA
9674	Public Information Officer	7G	CU
9676	International Relations Officer	5D	CS
9678	Historian	5D	CS
9680	Human Resources Management Specialist	5M	EP
9688	Master of Laws	5F	CL
9699	Marine Officer Instructor	5K	CE
9903	General Officer	1A	EY
9905	Special Assignment Officer	9E	WZ
9908	Colonel, Ground	1B	TZ
9907	Colonel, Naval Aviator/Naval Flight Officer	1B	GQ
9908	Colonel, Supply	1B	EW
9910	Billet Designator-Unrestricted Officer	9E	WZ
9911	Billet Designator-Unrestricted Ground Officer	9E	WZ
9912	Billet Designator-Naval Aviator/Naval Flight Officer	9E	GQ
9913	Special Services Officer	7N	MG
9914	Colonel, Judge Advocate	1B	CL
9925	Range Officer	7B	GE
9930	Billet Designator-Air Control/Anti-Air Warfare Officer	2G	GN
9947	Psychological Operations Officer	3A	TZ
9950	Combat Artist Officer	7F	CU
9952	Scuba Marine	2E	TA
9953	Parachutist/Scuba Marine	2E	TA
9956	Ground Safety Specialist	4J	MS
9960	Naval Aviation Observer	2G	GQ
9962	Parachutist	2E	TA
9980	Surveillance Sensor Officer	3B	EI
9981	Tactical Data Systems Specialist	7E	GK
XX01	Basic Marine Officer	9E	WE
XXXX	Any MOS Held by Officer of General Rank	1A	

Italicized letters are defined in introductory material.

AIR FORCE OFFICER

Service Occ.	Title	DoD Occ.	IDOS
0001	Patient	9A	WZ
0002	General Officer	1A	EY
0005	Nuclear Weapons Custodian	4E	EW
0006	Pilot Trainee	9B	WE
0007	Navigator Trainee	9B	WE
0016	Director of Personnel Management	7C	EP
0026	Organization Commander	1B	EY
0036	Director of Operations	2G	TZ
0046	Director of Logistics	8A	EW
0056	Comptroller	7D	EF
0066	Air Commander	2A	GQ
0076	Planning & Programming Officer	1B	EY
0086	Missile Commander	2F	TD
0096	Director of Resource Management	1B	EF
0106	Uniformed Services University of Health Sciences Student	9B	WE
0107	HPSP Medical Student	9B	WE
0108	HPSP Dental Student	9B	WE
0109	HPSP Veterinary Student	9B	WE
0110	Excess Leave Law Student	9B	WE
0111	Funded Legal Education Program Law Student	9B	WE
0112	Nondesignated Lawyer	5F	CL
0113	HPSP Biomedical Science Student	9B	WE
0114	AFROTC Educational Delay Law Student	9B	WE
0115	Chaplain Candidate	9B	WE
0216	International Politico-Military Affairs Officer	5D	CS
0516	Disaster Preparedness Staff Officer	4J	MS
0524	Disaster Preparedness Officer	4J	MS
0900	Commander, Cadet Squadron, USAF Academy	7B	GE
0910	Air Attache	3A	EI
0920	Recruiting Service Officer	7C	EP
0930	Historical Officer	5D	CS
0940	Instructor	5K	CE
0950	Training Commander, Officer Training School	7B	GE
0960	Computer Systems Program Director	7E	GK
1025	Pilot, Helicopter	2C	GQ
1035	Pilot, Search-Rescue	2B	GQ
1045	Pilot, Transport	2B	GQ
1055	Pilot, Tactical Airlift	2B	GQ
1065	Pilot, Tanker	2B	GQ
1115	Pilot, Fighter	2A	GQ
1135	Pilot, Special Tactics Fighter	2A	GQ
1145	Forward Air Controller	2G	GN
1235	Pilot, Strategic Bomber	2A	GQ
1325	Pilot, Reconnaissance/EW/Airborne Command & Control	2B	GQ
1355	Flight Training Instructor	2B	GQ
1416	Air Operations Staff Officer, Pilot	2G	TZ
1425	Air Operations Officer, Pilot (Transport/Airlift)	2G	TZ
1435	Air Operations Officer, Pilot (Strategic Bombardment/Refueling)	2G	TZ
1445	Air Operations Officer, Pilot (Special Ops./Tac. Air Control Sys)	2G	TZ
1455	Air Operations Officer, Pilot (Fighter/Special Tactics)	2G	TZ
1475	Air Operations Officer, Pilot (Recon/EW/Airborne Command & Cont.)	2G	TZ

Italicized letters are defined in introductory material.

AIR FORCE OFFICER

Service Occ.	Title	DoD Occ.	IDOS
1485	Air Operations Officer, Pilot (Helicopter/Search & Rescue)	2G	TZ
1495	Air Operations Officer, Pilot (Air Operations General)	2G	TZ
1525	Navigator-Bombardier, Strategic	2D	GQ
1535	Navigator, General	2D	GQ
1545	Navigator, Airlift	2D	GQ
1555	Weapon Systems Officer	2D	GQ
1565	Navigator, Reconnaissance/Airborne Command & Control	2D	GQ
1575	Electronic Warfare Officer	2D	GQ
1585	Navigator, Special Operations	2D	GQ
1616	Air Traffic Control Staff Officer	2G	GG
1634	Air Traffic Control Operations Officer	2G	GG
1716	Air Weapons Director Staff Officer	2G	GN
1744	Air Weapons Controller	2G	GN
1816	Missile Operations Staff Officer	2G	TD
1825	Missile Launch Officer	2F	TD
1835	Missile Operations Officer	2F	TD
1896	Missile Operations Director	2G	TD
2016	Space Operations Staff Officer	2G	CZ
2025	Space Operations Analyst	2G	CZ
2035	Space Operations Officer	2G	CZ
2045	Manned Space Flight Operations Officer	2G	CZ
2055	Satellite Operations Officer	2G	CZ
2068	Astronaut	2G	CZ
2098	Space Operations Director	2G	CZ
2216	Air Operations Staff Officer, Navigator	2G	TZ
2225	Air Operations Officer, Navigator (Strategic)	2G	TZ
2235	Air Operations Officer, Navigator (General)	2G	TZ
2245	Air Operations Officer, Navigator (Airlift)	2G	TZ
2255	Air Operations Officer, Navigator (Weapons Systems Officer)	2G	TZ
2265	Air Operations Officer, Navigator (Reconnaissance)	2G	TZ
2275	Air Operations Officer, Navigator (Electronic Warfare)	2G	TZ
2285	Air Operations Officer, Navigator (Special Operations)	2G	TZ
2295	Air Operations Officer, Navigator (Air Operations General)	2G	TZ
2316	Audio-Visual Staff Officer	7F	CU
2324	Audiovisual Officer	7F	CU
2516	Weather Staff Officer	5B	AA
2524	Weather Officer	5B	AA
2534	Aerial Reconnaissance Weather Officer	5B	AA
2546	Advanced Weather Officer	5B	AA
2616	Scientific Manager	5A	AA
2635	Physicist	5A	AA
2645	Chemical Research Officer	5A	AA
2655	Metallurgist	5A	AA
2665	Nuclear Research Officer	5A	AA
2675	Behavioral Scientist	5E	CS
2685	Scientific Analyst	5A	AA
2716	Acquisition Management Officer	4N	EV
2724	Acquisition Project Officer	4N	EV
2816	Staff Development Engineering Manager	4N	EW
2825	Electronic Engineer	4B	AC
2835	Mechanical Engineer	4D	AC

Italicized letters are defined in introductory material.

AIR FORCE OFFICER

Service Occ.	Title
2845	Astronautical Engineer
2855	Aeronautical Engineer
2865	Experimental Test Pilot
2875	Experimental Test Navigator
2895	Project Engineer
2996	Program Manager
3016	Communications-Electronics Staff Officer
3024	Communications-Electronics Systems Officer
3034	Communications-Electronics Maintenance Officer
3055	Communications Electronics Engineer
3096	Communications Electronics Director
3116	Missile Maintenance Staff Officer
3124	Missile Maintenance Officer
3196	Missile Maintenance Director
4016	Maintenance Staff Officer
4024	Aircraft Maintenance Officer
4054	Munitions Officer
4096	Aerospace Maintenance Director
5116	Computer Systems Staff Officer
5135	Computer Systems Development Officer
5155	Computer Operations Officer
5164	Computer Systems, Plans & Programs Officer
5176	Computer Systems Manager
5516	Civil Engineering Staff Officer
5525	Civil Engineering Officer
5596	Civil Engineer Director
5716	Cartographic/Geodetic Staff Officer
5734	Cartographic/Geodetic Officer
6016	Transportation Staff Officer
6054	Transportation Officer
6216	Services Staff Officer
6224	Services Operations Officer
6234	Services Sales Officer
6244	Food Service Officer
6416	Supply Management Staff Officer
6424	Supply Operations Officer
6516	Acquisition Contracting/Manufacturing Staff Officer
6524	Production/Manufacturing Officer
6534	Acquisition Contracting Officer
6544	Manufacturing Engineering Officer
6596	Acquisition Contracting/Manufacturing Director
6616	Logistics Plans & Programs Staff Officer
6624	Logistics Plans & Programs Officer
6716	Accounting & Finance Staff Officer
6724	Accounting & Finance Officer
6736	Budget Officer
6746	Cost Analysis Officer
6756	Comptroller Staff Officer
6784	Auditor
6796	Auditor, Staff
6916	Management Analysis Staff Officer

Italicized letters are defined in introductory material.

AIR FORCE OFFICER

Service Occ.	Title	DoD Occ.	IDOS
6924	Management Analysis Officer	7E	GK
7016	Executive Support Staff Officer	7A	EY
7024	Executive Support Officer	7A	EY
7034	Administration Management Officer	7A	EY
7046	Administration Management Officer, Staff	7A	EY
7316	Personnel Programs Staff Officer	7C	EP
7324	Personnel Programs Officer	7C	EP
7364	Social Actions Officer	5M	CZ
7376	Social Actions Officer, Staff	5M	CZ
7416	Manpower Management Staff Officer	7C	EP
7424	Manpower Management Officer	7C	EP
7516	Education & Training Staff Officer	7B	CE
7524	Education & Training Officer	7B	CE
7916	Public Affairs Staff Officer	7G	CU
7924	Public Affairs Officer	7G	CU
8016	Intelligence Systems Staff Officer	3A	EI
8024	Human Resources Intelligence Officer	3A	EI
8035	Signals Intelligence Officer	3B	EI
8044	Imagery Intelligence Officer	3A	EI
8054	Air Intelligence Officer	3A	EI
8064	Intelligence Precision Photographic Officer	7F	EI
8076	Intelligence Applications Officer, Staff	3A	EI
8086	Intelligence Targeting Officer	3A	EI
8096	Intelligence Director	3A	EI
8116	Security Police Staff Officer	7H	ML
8124	Security Police Officer	7H	ML
8216	Special Investigations Staff Officer	3C	EI
8224	Special Investigations Officer	3C	EI
8716	Band Staff Officer	7N	MX
8724	Band Officer	7N	MX
8816	Judge Advocate, Staff	5F	CL
8824	Judge Advocate	5F	CL
8916	Staff Chaplain	5G	CZ
8924	Chaplain	5G	CZ
9016	Health Services Administrator, Staff	7M	EM
9025	Health Services Administrator	7M	EM
9116	Bio-Environmental Engineer, Staff	4A	AC
9124	Bio-Environmental Engineer	4A	AC
9136	Medical Entomologist	5C	AB
9146	Staff Biomedical Scientist	6H	CM
9156A	Biomedical Laboratory Officer, Biomedical Lab Science	6H	CM
9156B	Biomedical Laboratory Officer Microbiology	5C	AB
9156C	Biomedical Laboratory Officer, Chemistry	5A	AA
9156G	Biomedical Laboratory Officer, Blood Bank	6H	CM
9156H	Biomedical Laboratory Officer, Other	6H	CM
9166	Aerospace Physiologist	5C	AB
9176	Health Physicist	5A	AA
9186	Clinical Psychologist	5E	CS
9196	Clinical Social Worker	5H	CZ
9216	Dietitian	6H	CM
9226	Occupational Therapist	6H	CM

Italicized letters are defined in introductory material.

AIR FORCE OFFICER

Service Occ.	Title
9236	Physical Therapist
9246	Pharmacist
9256	Optometrist
9266	Biomedical Specialist
9276	Podiatrist
9286	Physician Assistant
9296	Environmental Health Officer
9316	Staff Clinician
9346	Family Physician
9356	Aerospace Medicine Physician
9366	Pediatrician
9366A	Pediatrician, Allergy
9366B	Pediatrician, Adolescent Medicine
9366C	Pediatrician, Cardiology
9366E	Pediatrician, Endocrinology
9366F	Pediatrician, Neonatology
9366G	Pediatrician, Gastroenterology
9366H	Pediatrician, Hematology
9366J	Pediatrician, Neurology
9366L	Pediatrician, Infectious Disease
9366M	Pediatrician, Medical Genetics
9366N	Pediatrician, Nephrology
9376	Physical Medicine Physician
9386	Internist
9386A	Internist, Allergy
9386B	Internist, Oncology
9386C	Internist, Cardiology
9386E	Internist, Endocrinology
9386G	Internist, Gastroenterology
9386H	Internist, Hematology
9386J	Internist, Rheumatology
9386K	Internist, Pulmonary Diseases
9386L	Internist, Infectious Diseases
9386N	Internist, Nephrology
9386R	Internist, Nuclear Medicine
9396	Emergency Physician
9416	Surgeon
9416A	Surgeon, Thoracic Surgery
9416B	Surgeon, Colon & Rectal Surgery
9416C	Surgeon, Cardiac Surgery
9416D	Surgeon, Pediatric Surgery
9416E	Surgeon, Peripheral Vascular Surgery
9416F	Surgeon, Neurological Surgery
9416G	Surgeon, Plastic Surgery
9426	Urologist
9436	Ophthalmologist
9446	Otorhinolaryngologist
9486	Orthopedic Surgeon
9496	Obstetrician & Gynecologist
9526	Pathologist
9536	Diagnostic Radiologist

Italicized letters are defined in introductory material.

AIR FORCE OFFICER

Service Occ.	Title	DoD Occ.	IDOS
9556	Dermatologist	6A	CM
9566	Anesthesiologist	6A	CM
9576	Neurologist	6A	CM
9586	Psychiatrist	6A	CM
9596	Radiotherapist	6A	CM
9716	Nursing Administrator	6E	EM
9726	Mental Health Nurse	6F	CM
9736	Operating Room Nurse	6F	CM
9746	Nurse Anesthetist	6F	CM
9756	Clinical Nurse	6E	CM
9766	Flight Nurse	6E	CM
9776	Nurse-Midwife	6E	CM
9786	Environmental Health Nurse	6F	CM
9816	Dental Staff Officer	6C	CM
9826	Dental Officer, General	6C	CM
9836	Oral Surgeon	6C	CM
9846	Periodontist	6C	CM
9856	Prosthodontist	6C	CM
9866	Orthodontist	6C	CM
9876	Oral Pathologist	6C	CM
9886	Endodontist	6C	CM
9896	Pedodontist	6C	CM
9916	Staff Veterinarian	6G	AB
9925	Veterinarian	6G	AB
9936	Veterinary Scientist	6G	AB
9946	Veterinary Clinical Specialist	6G	AB
9956	Veterinary Health Specialist	6G	AB

Italicized letters are defined in introductory material.

APPENDIX F

SOURCE LISTING OF MAIN COMPUTER PROGRAM FOR INVENTORY MODIFICATION MODULE

APPENDIX F

SOURCE LISTING OF MAIN COMPUTER PROGRAM FOR INVENTORY MODIFICATION MODULE

This appendix provides a listing of the main PL/1 program used in the inventory modification module.

UPDATEPROC:PROCEDURE OPTIONS(MAIN);

```

/*****
/*
/*      THE VARIABLES USED IN THIS PROGRAM ARE AS FOLLOWS:
/*
/*
/* ADEM          Dimensions for TALLY
/* BDEM          Dimensions for UPDATE_FACTOR
/* CELL          Used to translate input total
/* CORR_DEM      Indicates which fields from the Update file
/*               correspond to a fields in the Civilian
/*               input tabulation
/* FCTRFILE       File containing upate factors
/* FACTOR_POS     Position of FCTRFILE fields
/* FACTOR_SIZ     Size of FCTRFILE fields
/* FACTOR_VARCNT  # variables in FCTRFILE
/* IBYT1,IBYT2    Control variables
/* IN_DESCR       Description of each input field
/* IN_KEEP        Indicates which fields are in output tabulation
/* IN_MAX,IN_MIN  Max and Min of each input field
/* IN_POS,IN_SIZ  Position and size of each input field
/* IN_TALLY_POS   Position of Count in INFILE
/* IN_TALLY_SIZ   Size of Count in INFILE
/* IN_VARCNT      # variables described in TRANPARM
/* MORE_RECORDS   Flag to indicate end of INFILE
/* OUTFILE        Contains updated Civilian output tabulation
/* OUT_RECSIZ     Size of output record
/* TRANPARM       Contains description of each input field
/* INFILE         Contains Civilian input tabulation
/* RAW_STRING     String to contain input record
/* UNIVERSE       Flag to indicate valid dimensions
/* UPDATE_FACTOR_POS Position of Update factor in FCTRFILE
/* UPDATE_FACTOR_SIZ Size of Update factor in FCTRFILE
/* UPDATOR        1=INFILE is to be updated, 0=not updated
/* OUTSTRING      String to contain output record
/* TALLY          Holds new counts
/* UPDATE_FACTOR  Holds update factors
/*
*****/

/*      *      *      *      *      *      *      *      *      */

/*****
/*
/*      THE FOLLOWING VARIABLES ARE NEEDED IN THE
/*      INPUT PARAMETER FILE (IN THE ORDER GIVEN)
/*
/*
/*      1 IN_VARCNT      # variables in Civilian input tabulation

```

```

/*                being utilized                */
/* + 2 IN_DESCR    Description of ea field in the Civilian */
/*                input tabulation                */
/* + 3 IN_POS      Position of each field in the Civilian */
/*                input tabulation                */
/* + 4 IN_SIZ      Size of each field in the Civilain input */
/*                tabulation                */
/* + 5 IN_MIN      Min of each field in the Civilian input */
/*                tabulation                */
/* + 6 IN_MAX      Max of each field in the Civilian input */
/*                tabulation                */
/* + 7 IN_KEEP     Indicates which variables are to be in */
/*                output tabulation                */
/* + 8 FACTOR_KEEP  Indicates fields used for updating */
/* 9 IN_TALLY_POS  Position of Count in Civilian input */
/*                tabulation                */
/* 10 IN_TALLY_SIZ Size of Count in Civilian input tabulation */
/* 11 UPDATOR      1 if file is to be updated, 0 if not */
/* 12 FACTOR_VARCNT # variables in Update file */
/*++13 FACTOR_POS  Position of each field in the Update file */
/*++14 FACTOR_SIZ  Size of each field in the Update file */
/*++15 CORR_DEM    Indicates which fields from the Update file */
/*                correspond to a field in the Civilian */
/*                input tabulation                */
/* 16 UPDATE_FACTOR_POS Position of update factor */
/* 17 UPDATE_FACTOR_SIZ Size of update factor */
/*                */
/*                + Repeated IN_VARCNT times */
/*                ++ Repeated FACTOR_VARCNT times */
/*                */
/...../

```

```

DECLARE TRANPARM                                FILE;

DECLARE IN_VARCNT                                FIXED BIN(15),
IN_DESCR(1:8)                                    CHAR(64),
(IN_POS,IN_SIZ,
IN_MIN,IN_MAX )(1:8)                            FIXED BIN(15),
(IN_KEEP,FACTOR_KEEP)(1:8)                      FIXED BIN(7),
(IN_TALLY_POS,IN_TALLY_SIZ)                     FIXED BIN(15),
FACTOR_VARCNT                                    FIXED BIN(15),
(FACTOR_POS,FACTOR_SIZ,CORR_DEM)
(1:8)                                            FIXED BIN(15),
(UPDATE_FACTOR_POS,
UPDATE_FACTOR_SIZ)                              FIXED BIN(15);

DECLARE (IBYT1,IBYT2)                          FIXED BIN(7);

```

```

DECLARE (ADEM,BDEM)(1:8)                FIXED DEC(5);

DECLARE INFILE                          FILE,
      RAW_STRING                        CHAR(256)VARYING;

DECLARE OUTFILE                          FILE,
      OUT_RECSIZ                        FIXED BIN(15);

DECLARE FCTRFILE                        FILE;

DECLARE UPDATOR                          FIXED BIN(7);

DECLARE (UNIVERSE,MORE_RECORDS)         BIT(1);

DECLARE CELL                            FLOAT BIN(24);

OPEN FILE(TRANPARM) STREAM INPUT;

GET FILE(TRANPARM) LIST(IN_VARCNT);

IN_MIN=0;IN_MAX=0;IN_KEEP=0;FACTOR_KEEP=0;
OUT_RECSIZ=14;ADEM=0;BDEM=0;CORR_DEM=0;

DO IBYT1=1 TO IN_VARCNT;

      GET FILE(TRANPARM) LIST(IN_DESCR(IBYT1));

      GET FILE(TRANPARM) LIST(IN_POS(IBYT1),IN_SIZ(IBYT1),IN_MIN(IBYT1),
        IN_MAX(IBYT1),IN_KEEP(IBYT1),FACTOR_KEEP(IBYT1));

      OUT_RECSIZ=OUT_RECSIZ+(8*IN_KEEP(IBYT1));

END;

GET FILE(TRANPARM) LIST(IN_TALLY_POS,IN_TALLY_SIZ);

GET FILE(TRANPARM) LIST(UPDATOR);

BEGIN;

DECLARE TALLY( IN_MIN(1)*IN_KEEP(1):IN_KEEP(1)*IN_MAX(1),
      IN_MIN(2)*IN_KEEP(2):IN_KEEP(2)*IN_MAX(2),
      IN_MIN(3)*IN_KEEP(3):IN_KEEP(3)*IN_MAX(3),
      IN_MIN(4)*IN_KEEP(4):IN_KEEP(4)*IN_MAX(4),
      IN_MIN(5)*IN_KEEP(5):IN_KEEP(5)*IN_MAX(5),
      IN_MIN(6)*IN_KEEP(6):IN_KEEP(6)*IN_MAX(6),
      IN_MIN(7)*IN_KEEP(7):IN_KEEP(7)*IN_MAX(7),
      IN_MIN(8)*IN_KEEP(8):IN_KEEP(8)*IN_MAX(8))
      FLOAT DEC(7);

```

```

DECLARE UPDATE_FACTOR(
    IN_MIN(1)*FACTOR_KEEP(1):FACTOR_KEEP(1)*IN_MAX(1),
    IN_MIN(2)*FACTOR_KEEP(2):FACTOR_KEEP(2)*IN_MAX(2),
    IN_MIN(3)*FACTOR_KEEP(3):FACTOR_KEEP(3)*IN_MAX(3),
    IN_MIN(4)*FACTOR_KEEP(4):FACTOR_KEEP(4)*IN_MAX(4),
    IN_MIN(5)*FACTOR_KEEP(5):FACTOR_KEEP(5)*IN_MAX(5),
    IN_MIN(6)*FACTOR_KEEP(6):FACTOR_KEEP(6)*IN_MAX(6),
    IN_MIN(7)*FACTOR_KEEP(7):FACTOR_KEEP(7)*IN_MAX(7),
    IN_MIN(8)*FACTOR_KEEP(8):FACTOR_KEEP(8)*IN_MAX(8))
    FLOAT BIN(24);

DECLARE OUT_STRING                                CHAR(OUT_RECSIZ);

TALLY=0;

IF UPDATOR=1 THEN DO;

    GET FILE(TRANPAM) LIST(FACTOR_VARCNT);

    DO IBYT1=1 TO FACTOR_VARCNT;

        GET FILE(TRANPAM) LIST(FACTOR_POS(IBYT1),FACTOR_SIZ(IBYT1),
            CORR_DEM(IBYT1));

    END;

    GET FILE(TRANPAM) LIST(UPDATE_FACTOR_POS,UPDATE_FACTOR_SIZ);

    OPEN FILE(FCTRFILE) INPUT SEQUENTIAL;
    MORE_RECORDS='1'B;
    ON ENDFILE(FCTRFILE) MORE_RECORDS='0'B;
    READ FILE(FCTRFILE) INTO (RAW_STRING);
    UPDATE_FACTOR=1;

    DO WHILE(MORE_RECORDS);

        UNIVERSE='1'B;
        IBYT1=0;

        DO WHILE(UNIVERSE & IBYT1 < FACTOR_VARCNT);

            IBYT1=IBYT1+1;
            BDEM(CORR_DEM(IBYT1))=FLOAT(
                SUBSTR(RAW_STRING,FACTOR_POS(IBYT1),FACTOR_SIZ(IBYT1)),7);
            IF BDEM(CORR_DEM(IBYT1)) < IN_MIN(CORR_DEM(IBYT1))
                THEN UNIVERSE='0'B;
            ELSE IF BDEM(CORR_DEM(IBYT1)) > IN_MAX(CORR_DEM(IBYT1))
                THEN UNIVERSE='0'B;
        END;
    END;
END;

```

```

END;

IF UNIVERSE THEN DO;

    UPDATE_FACTOR(      BDEM(1),      BDEM(2),
        BDEM(3),      BDEM(4),      BDEM(5),
        BDEM(6),      BDEM(7),      BDEM(8))=
    FLOAT(SUBSTR(RAW_STRING,UPDATE_FACTOR_POS,UPDATE_FACTOR_SIZ),7);

END;

READ FILE(FCTRFILE) INTO (RAW_STRING);

END;

CLOSE FILE(FCTRFILE);

END;

OPEN FILE(INFILE) INPUT SEQUENTIAL;
MORE_RECORDS='1'B;
ON ENDFILE(INFILE) MORE_RECORDS='0'B;
READ FILE(INFILE) INTO (RAW_STRING);

DO WHILE(MORE_RECORDS);

    IBYT1=0;UNIVERSE='1'B;

    DO WHILE (UNIVERSE & (IBYT1 < IN_VARCNT));

        IBYT1=IBYT1+1;
        ADEM(IBYT1)=FLOAT(SUBSTR(RAW_STRING,IN_POS(IBYT1),IN_SIZ(IBYT1)),7);

        IF ADEM(IBYT1) < IN_MIN(IBYT1) THEN UNIVERSE='0'B;
        ELSE IF ADEM(IBYT1) > IN_MAX(IBYT1) THEN UNIVERSE='0'B;

        BDEM(IBYT1)=ADEM(IBYT1)*FACTOR_KEEP(IBYT1);
        ADEM(IBYT1)=ADEM(IBYT1)*IN_KEEP(IBYT1);

    END;

    IF UNIVERSE THEN DO;

        CELL=FLOAT(SUBSTR(RAW_STRING,IN_TALLY_POS,IN_TALLY_SIZ),7);

        IF UPDATOR=1 THEN DO;

            CELL=CELL*UPDATE_FACTOR(      BDEM(1),      BDEM(2),
                BDEM(3),      BDEM(4),      BDEM(5),

```

```

                                BDEM(6),      BDEM(7),      BDEM(8));

END;

TALLY(  ADEM(1),      ADEM(2),      ADEM(3),      ADEM(4),
        ADEM(5),      ADEM(6),      ADEM(7),      ADEM(8) )=
TALLY(ADEM(1),      ADEM(2),      ADEM(3),      ADEM(4),
      ADEM(5),      ADEM(6),      ADEM(7),      ADEM(8) )+CELL;

END;

READ FILE(INFILE) INTO (RAW_STRING);
END;

CLOSE FILE(INFILE);
OPEN FILE(OUTFILE) OUTPUT SEQUENTIAL;

DO ADEM(1)=IN_MIN(1)*IN_KEEP(1) TO IN_KEEP(1)*IN_MAX(1);
DO ADEM(2)=IN_MIN(2)*IN_KEEP(2) TO IN_KEEP(2)*IN_MAX(2);
DO ADEM(3)=IN_MIN(3)*IN_KEEP(3) TO IN_KEEP(3)*IN_MAX(3);
DO ADEM(4)=IN_MIN(4)*IN_KEEP(4) TO IN_KEEP(4)*IN_MAX(4);
DO ADEM(5)=IN_MIN(5)*IN_KEEP(5) TO IN_KEEP(5)*IN_MAX(5);
DO ADEM(6)=IN_MIN(6)*IN_KEEP(6) TO IN_KEEP(6)*IN_MAX(6);
DO ADEM(7)=IN_MIN(7)*IN_KEEP(7) TO IN_KEEP(7)*IN_MAX(7);
DO ADEM(8)=IN_MIN(8)*IN_KEEP(8) TO IN_KEEP(8)*IN_MAX(8);

IF TALLY(
      ADEM(1),      ADEM(2),
      ADEM(3),      ADEM(4),      ADEM(5),
      ADEM(6),      ADEM(7),      ADEM(8)) > 0
THEN DO;

      IBYT2=0;

      DO IBYT1=1 TO IN_VARCNT;

        IF IN_KEEP(IBYT1) > 0 THEN DO;

          SUBSTR(OUT_STRING,(8*IBYT2+1),8)=CHAR(ADEM(IBYT1));
          IBYT2=IBYT2+1;

        END;

      END;

      SUBSTR(OUT_STRING,8*IBYT2+1,14)=
      CHAR(TALLY(  ADEM(1),      ADEM(2),
                  ADEM(3),      ADEM(4),      ADEM(5),
                  ADEM(6),      ADEM(7),      ADEM(8)));
      WRITE FILE(OUTFILE) FROM (OUT_STRING);

END;

```

END;END;END;END;END;END;END;END;

END /*BEGIN*/;
END UPDATEPROC;

APPENDIX G

SOURCE LISTING OF MAIN COMPUTER PROGRAM FOR REPORTING MODULE

APPENDIX G
SOURCE LISTING OF MAIN COMPUTER PROGRAM
FOR REPORTING MODULE

This appendix provides a listing of the main PL/1 program used for the reporting module.

REPMAIN:PROCEDURE OPTIONS(MAIN);

```

/*****
/*
/*      THE VARIABLES USED IN THIS PROGRAM ARE AS FOLLOWS:
/*
/*
/* INFILE      File that contains the Civilian input tabulation
/* CIVKEY      Composite of all variables to be output
/* CIVKEY_MAX  * of possible INFILE combinations
/* CIVVARCNT   * variables being used in the Civilian input tabulation
/* CIV_STRING  String containing Civilian input tabulation records
/* COMB_KEY    Composite of Crosswalk variables
/* COMB_KEY_MAX * of possible Crosswalk combinations
/* CTR,CTR2    Control variables
/* JOBPOS      Position of Military Job field in XFILE
/* JOBSIZ      Size of Military Job field in XFILE
/* MORE_CIV    Flag to indicate end of INFILE
/* MORE_XFILE  Flag to indicate end of XFILE
/* TRANPARM    Contains description of each input field
/* TALLYPOS    Position of Count in Civilian input tabulation
/* TALLYSIZ    Size of Count in Civilian input tabulation
/* VALID_CELL  Flag to indicate valid variable field
/* XFILE       Contains Crosswalk information
/* XKEY        Composite of INFILE variables to be matched with Crosswalk*/
/* XVARCNT     * variables being utilized in the Crosswalk
/* XSTRING     String containing Crosswalk records
/* CIVBASE     Factors used to calculate CIVKEY
/* CIVMAX      Maximum of ea Civilian input tabulation field being used*/
/* CIVMIN      Minimum of ea Civilian input tabulation field being used*/
/* CIVPOS      Position of ea Civilian input tabulation field being used*/
/* CIVSIZ      Size of each Civilian input tabulation field being used*/
/* CIVRNG      Range of each Civilian input tabulation field being used*/
/* CIVVAR      INFILE variable to be reported
/* CIV_DESCR   Description of each Civilian input tabulation field
/*              being utilized
/* XBASE       Factors used to calculate XKEY
/* XCIVPOS     Position of fields from Civilian input tabulation that
/*              correspond to the Crosswalk
/* XCIVSIZ     Size of fields from the Civilian input tabulation that
/*              correspond to the Crosswalk
/* XMAX,XMIN   Max and min of each Crosswalk field being utilized
/* XPOS,XSIZ   Position and size of each Crosswalk field being utilized*/
/* XRNG        Range of each Crosswalk field being utilized
/* XVAR        Variables from INFILE and XFILE to be matched
/* X_DESCR     Description of each Crosswalk field being utilized
/* COMBO       Index of Crosswalk combinations encountered
/* COMBO_MAX   * of Crosswalk combinations encountered
/* INVENTORY   Totals by CIVKEY and COMBO
/* LAST_X      Identifies last REP_JOB to which COMBO was applied
/* REP_TOTAL   Totals at each level of report
/* SPACER      Puts spaces in report output
/* X_REC_CTR   Counts jobs reported
/* BREAKDOWN   Flag to indicate whether report contains breakdowns
/*
/*****
/*
/*
/*****
/*
/*

```

```

/*          THE FOLLOWING VARIABLES ARE NEEDED IN THE          */
/*          INPUT PARAMETER FILE (IN THE ORDER GIVEN)          */
/*          */
/*          1 CIVVARCNT      * variables being utilized in the Civilian      */
/*          input tabulation      */
/*          2 XVARCNT      * variables being utilized in the Crosswalk      */
/*          Description of each Civilian input tabulation      */
/*          + 3 CIV_DESCR      field being utilized      */
/*          + 4 CIVPOS      Position of each Civilian input tabulation      */
/*          field being utilized      */
/*          + 5 CIVSIZ      Size of each Civilian input tabulation field      */
/*          being utilized      */
/*          + 6 CIVMIN      Minimum of each Civilian input tabulation field      */
/*          being utilized      */
/*          + 7 CIVMAX      Maximum of each Civilian input tabulation field      */
/*          being utilized      */
/*          ++ 8 X_DESCR      Description of ea Crosswalk field being utilized      */
/*          ++ 9 XPOS      Position of each Crosswalk field being utilized      */
/*          ++10 XSIZ      Size of each Crosswalk field being utilized      */
/*          ++11 XMIN      Minimum of each Crosswalk field being utilized      */
/*          ++12 XMAX      Maximum of each Crosswalk field being utilized      */
/*          ++13 XCIVPOS      Position of each Civilian input tabulation field      */
/*          that corresponds to a Crosswalk field      */
/*          ++14 XCIVSIZ      Size of each Civilian input tabulation field      */
/*          that corresponds to a Crosswalk field      */
/*          15 TALLYPOS      Position of Count in Civilian input tabulation      */
/*          16 TALLYSIZ      Size of Count in Civilian input tabulation      */
/*          17 JOBPOS      Position of Military Job field in Crosswalk      */
/*          18 JOBSIZ      Size of Military Job field in Crosswalk      */
/*          */
/*          + Repeat CIVVARCNT times      */
/*          ++ Repeat XVARCNT times      */
/*          */
/*          */

```

```

DECLARE
TRANPARAM                                FILE;

DECLARE
INFILE                                FILE,
CIV_STRING                            CHAR(254)VARYING;

DECLARE
XFILE                                FILE,
X_STRING                            CHAR(254)VARYING;

DECLARE
(CIVVARCNT,XVARCNT)                    FIXED BIN(7);

DECLARE
(CTR,CTR2,COMB_KEY,COMB_KEY_MAX,CIVKEY,CIVKEY_MAX,XKEY)
                                         FIXED BIN(31);

DECLARE
(TALLYPOS,TALLYSIZ,JOBPOS,JOBSIZ)      FIXED BIN(15);

DECLARE
(BREAKDOWN,VALID_CELL,MORE_XFILE,MORE_CIV)  BIT(1);

```

```

OPEN FILE(TRANPARG) STREAM INPUT;
GET FILE(TRANPARG) LIST(CIVVARGNT,XVARGNT);

IF CIVVARGNT > 0
THEN BREAKDOWN='1'B;
ELSE DO;
    BREAKDOWN='0'B;
    CIVVARGNT=1;
END;

BEGIN;

DECLARE
    CIVVAR(1:CIVVARGNT)                FIXED BIN(15),
    XVAR(1:XVARGNT)                    FIXED BIN(15);

DECLARE
    (CIVMIN,CIVMAX,CIVRNG,CIVPOS,CIVSIZ)(1:CIVVARGNT)
                                           FIXED BIN(15);

DECLARE
    CIVBASE(1:CIVVARGNT)                FIXED BIN(31);

DECLARE
    (CIVKEY,CIVKEY_MAX)                 FIXED BIN(31);

DECLARE
    (XMIN,XMAX,XRNG,XBASE,XCIVPOS,XCIVSIZ,XPOS,XSIZ)(1:XVARGNT)
                                           FIXED BIN(15);

DECLARE
    CIV_DESCR(1:CIVVARGNT)              CHAR(12),
    X_DESCR(1:XVARGNT)                  CHAR(12);

/* CALCULATE NUMBER OF REPORT CELLS */

IF BREAKDOWN
THEN DO CTR=1 TO CIVVARGNT;
    GET FILE(TRANPARG) LIST(CIV_DESCR(CTR));
    GET FILE(TRANPARG) LIST(CIVPOS(CTR),CIVSIZ(CTR),
        CIVMIN(CTR),CIVMAX(CTR));
    CIVRNG(CTR)=CIVMAX(CTR)-CIVMIN(CTR)+1;
END;
ELSE DO;
    CIVSIZ(1)=1;
    CIVMIN(1)=0;
    CIVMAX(1)=0;
    CIVRNG(1)=1;
END;

IF CIVVARGNT > 1
THEN DO CTR=2 TO CIVVARGNT;

    DO CTR2=CTR TO CIVVARGNT;
        CIV_DESCR(CTR2)=' '!!CIV_DESCR(CTR2);
    END;
END;

CIVKEY_MAX=1;

```

```

        IF BREAKDOWN THEN DO CTR=CIVVARCNT TO 1 BY -1;
            CIVBASE(CTR)=CIVKEY_MAX;
            CIVKEY_MAX=CIVKEY_MAX*CIVRNG(CTR);
        END;

/* CALCULATE NUMBER OF XFILE COMBINATAIONS AND FACTORS FOR
   KEY CALCULATION
*/
    COMB_KEY_MAX=1;

    DO CTR=1 TO XVARCNT;
        GET FILE(TRANPARM) LIST(X_DESCR(CTR));
        GET FILE(TRANPARM) LIST(XPOS(CTR),XSIZ(CTR),
            XMIN(CTR),XMAX(CTR),XCIVPOS(CTR),XCIVSIZ(CTR));
        XRNG(CTR)=XMAX(CTR)-XMIN(CTR)+1;
        XBASE(CTR)=COMB_KEY_MAX;
        COMB_KEY_MAX=COMB_KEY_MAX*XRNG(CTR);
    END;

    GET FILE(TRANPARM) LIST(TALLYPOS,TALLYSIZ);
    GET FILE(TRANPARM) LIST(JOBPOS,JOBSIZ);
    IF JOBSIZ > 80 THEN JOBSIZ=80;
    CLOSE FILE(TRANPARM);

BEGIN;

    DECLARE COMBO(1:COMB_KEY_MAX)          FIXED BIN(15);
    DECLARE COMBO_MAX                      FIXED BIN(15);

    COMBO=0;
    OPEN FILE(XFILE) INPUT SEQUENTIAL;
    MORE_XFILE='1'B;
    ON ENDFILE(XFILE) MORE_XFILE='0'B;
    READ FILE(XFILE) INTO (X_STRING);

    DO WHILE(MORE_XFILE);
        COMB_KEY=1;
        VALID_CELL='1'B;

        DO CTR=1 TO XVARCNT;

            XVAR(CTR)=FLOAT(SUBSTR(X_STRING,XPOS(CTR),XSIZ(CTR)),7);
            IF ((XVAR(CTR) < XMIN(CTR))|(XVAR(CTR) > XMAX(CTR)))
                THEN VALID_CELL='0'B;
            ELSE COMB_KEY=COMB_KEY+((XVAR(CTR)-XMIN(CTR))*XBASE(CTR));

        END;

        IF VALID_CELL THEN COMBO(COMB_KEY)=1;
        READ FILE(XFILE) INTO (X_STRING);

    END;

    CLOSE FILE(XFILE);
    COMBO_MAX=0;

    DO COMB_KEY=1 TO COMB_KEY_MAX;

```

```

        IF COMBO(COMB_KEY) > 0
        THEN DO;

            COMBO_MAX=COMBO_MAX+1;
            COMBO(COMB_KEY)=COMBO_MAX;

        END;
    END;

BEGIN;

    DECLARE
        INVENTORY(1:CIVKEY_MAX,1:COMBO_MAX)      FLOAT BIN(24);

    DECLARE
        LAST_X(1:COMBO_MAX)                      FIXED BIN(15),
        X_REC_CTR                                FIXED BIN(15),
        REP_JOB                                  CHAR(80) VARYING,
        REP_TOTAL(0:CIVVARCNT)                  FLOAT DEC(4),
        REP_INVENTORY(1:CIVKEY_MAX)             FLOAT DEC(4),
        SPACER(1:CIVVARCNT)                     CHAR(80)VARYING;

        INVENTORY=0;
        OPEN FILE(INFILE) INPUT SEQUENTIAL;
        MORE_CIV='1'B;
        ON ENDFILE(INFILE) MORE_CIV='0'B;
        READ FILE(INFILE) INTO (CIV_STRING);

        DO WHILE(MORE_CIV);

            VALID_CELL='1'B;
            XKEY=1;

            DO CTR=1 TO XVARCNT;

                XVAR(CTR)=FLOAT(SUBSTR(CIV_STRING,XCIVPOS(CTR),XCIVSIZ(CTR)),7);
                XKEY=XKEY+(XBASE(CTR)*(XVAR(CTR)-XMIN(CTR)));
                IF ((XVAR(CTR) < XMIN(CTR))|(XVAR(CTR) > XMAX(CTR)))
                THEN VALID_CELL='0'B;

            END;

            IF VALID_CELL
            THEN DO;

                IF COMBO(XKEY) > 0
                THEN DO;

                    CIVKEY=1;

                    IF BREAKDOWN THEN DO CTR=1 TO CIVVARCNT;

                        CIVVAR(CTR)=
                            FLOAT(SUBSTR(CIV_STRING,CIVPOS(CTR),CIVSIZ(CTR)),7);
                        IF ((CIVVAR(CTR)<CIVMIN(CTR))|(CIVVAR(CTR)>CIVMAX(CTR)))
                        THEN VALID_CELL='0'B;
                        ELSE CIVKEY=
                            CIVKEY+((CIVVAR(CTR)-CIVMIN(CTR))*CIVBASE(CTR));

                    END;
                ELSE DO;

```

```

        CIVVAR(1)=0;
        CIVKEY=1;

    END;

    IF VALID_CELL THEN INVENTORY(CIVKEY,COMBO(XKEY))=
        INVENTORY(CIVKEY,COMBO(XKEY))
        +FLOAT(SUBSTR(CIV_STRING,TALLYPOS,TALLYSIZ),7);

    END;
END;

    READ FILE(INFILE) INTO (CIV_STRING);

END;

    CLOSE FILE(INFILE);

/*GENERATE REPORT*/

    SPACER(1)='';

    IF CIVVARCNT > 1
    THEN DO CTR=2 TO CIVVARCNT;

        CTR2=CTR-1;
        SPACER(CTR)='      '!!SPACER(CTR2);

    END;

    OPEN FILE(XFILE) INPUT SEQUENTIAL;
    MORE_XFILE='1'B;
    READ FILE(XFILE) INTO(X_STRING);
    X_REC_CTR=1;
    LAST_X=0;

    DO WHILE(MORE_XFILE);

        REP_JOB=SUBSTR(X_STRING,JOBPOS,JOBSIZ);
        REP_TOTAL=0;
        REP_INVENTORY=0;

        DO WHILE((REP_JOB=SUBSTR(X_STRING,JOBPOS,JOBSIZ))
            & MORE_XFILE);

            VALID_CELL='1'B;
            COMB_KEY=1;

            DO CTR=1 TO XVARCNT;

                XVAR(CTR)=FLOAT(SUBSTR(X_STRING,XPOS(CTR),XSIZ(CTR)),7);
                IF((XVAR(CTR) < XMIN(CTR))|(XVAR(CTR) > XMAX(CTR)))
                THEN VALID_CELL='0'B;
                ELSE COMB_KEY=COMB_KEY+((XVAR(CTR)-XMIN(CTR))*XBASE(CTR));

            END;

            IF VALID_CELL
            THEN IF LAST_X(COMBO(COMB_KEY)) < X_REC_CTR
            THEN DO;

```

```

DO CIVKEY=1 TO CIVKEY_MAX;

    REP_INVENTORY(CIVKEY)=REP_INVENTORY(CIVKEY)
    +INVENTORY(CIVKEY,COMBO(COMB_KEY));

END;

LAST_X(COMB(COMB_KEY))=X_REC_CTR;

END;

READ FILE(XFILE) INTO (X_STRING);

END;

X_REC_CTR=X_REC_CTR+1;

/*BREAKDOWN*/
IF BREAKDOWN
THEN DO;

    PUT PAGE;
    PUT LIST(REP_JOB);
    PUT SKIP(2);

    DO CTR=1 TO CIVVARCNT;
        CIVVAR(CTR)=CIVMIN(CTR);

    END;

    CIVKEY=0;

    DO WHILE(CIVKEY < CIVKEY_MAX);

        CIVKEY=CIVKEY+1;
        CTR=CIVVARCNT;
        REP_TOTAL(CTR)=REP_TOTAL(CTR)+REP_INVENTORY(CIVKEY);
        IF REP_INVENTORY(CIVKEY) > 0
        THEN PUT SKIP
            LIST(CIV_DESCR(CTR),CIVVAR(CTR),
                SPACER(CTR)!!CHAR(REP_INVENTORY(CIVKEY),10));
        CIVVAR(CTR)=CIVVAR(CTR)+1;

        IF CIVVAR(CTR) > CIVMAX(CTR)
        THEN DO;

            DO WHILE(CIVVAR(CTR) > CIVMAX(CTR));

                REP_TOTAL(CTR-1)=REP_TOTAL(CTR-1)+REP_TOTAL(CTR);
                CIVVAR(CTR)=CIVMIN(CTR);

                IF CTR > 1
                THEN DO;

                    IF REP_TOTAL(CTR) > 0
                    THEN DO;

                        PUT SKIP(2) LIST(CIV_DESCR(CTR-1),CIVVAR(CTR-1),
                            SPACER(CTR-1)!!CHAR(REP_TOTAL(CTR),10));

```

```

        PUT SKIP;

    END;

    REP_TOTAL(CTR)=0;
    CTR=CTR-1;
    CIVVAR(CTR)=CIVVAR(CTR)+1;

    END;
    ELSE DO;

        PUT SKIP(2);
        PUT LIST('TOTAL
        REP_TOTAL(1));
        REP_TOTAL(1)=0;

        END;
    END;
    END;
    END;
    END;
/*NON-BREAKDOWN*/

    ELSE DO;
        PUT SKIP(2) LIST(REP_JOB,REP_INVENTORY(1));
    END;
    END;

END;END;END;

END REPMAIN;

```

APPENDIX H

SOURCE LISTING OF MAIN COMPUTER PROGRAM FOR ALLOCATION MODULE

APPENDIX H

SOURCE LISTING OF MAIN COMPUTER PROGRAM FOR ALLOCATION MODULE

This appendix provides the main PL/1 program for the allocation module.

ALLOCMAIN:PROCEDURE OPTIONS(MAIN);

```

/*****
/*
/*      THE VARIABLES USED IN THIS PROGRAM ARE AS FOLLOWS:
/*
/*
/* CHANGING          Control variable
/* XFILE             File that contains Crosswalk
/* CROSS_DEMAND_ID_LOC Position of Military Job field in Crosswalk
/* DECL             Intermediate variable
/* DEMFILE           File containing the Demand for each Military Job
/* DEMAND_CNT_LOC    Location of Count in DEMFILE
/* DEMAND_CNT_SIZ    Size of Count in DEMFILE
/* DEMAND_ID_LOC     Location of Military Job field in DEMFILE
/* DEMAND_ID_SIZ     Size of Military Job field in DEMFILE
/* INPUT_STRING      String used to contain records of various files
/* ITERATION         Counts iterations
/* ITERATION_MAX     Maximum number of iterations to be performed
/* MORE_XFILE        Flag to indicate end of XFILE
/* MORE_DEMFILE      Flag to indicate end of DEMFILE
/* MORE_SUPFILE      Flag to indicate end of SUPFILE
/* TRANPARM          File containing input parameters
/* REAL1             Intermediate variable
/* REPFIL            File containing output report
/* SUPFILE           File containing Civilian input tabulation
/* SUPPLY_CNT_LOC    Location of Count in SUPFILE
/* SUPPLY_CNT_SIZ    Size of Count in SUPFILE
/* SUPPLY_KEY        Composite of SUPFILE variables
/* VAR               Control variable
/* VARCNT            # variables being matched from Crosswalk to
/*                   Civilian input tabulation
/* CROSS_VAR_LOC     Location of each XFILE variable
/* CROSS_VAR_SIZ     Size of each XFILE variable
/* ID                String identifying demand
/* SUPPLY_VAR_LOC    Location of Civilian input tabulation fields
/*                   being utilized
/* SUPPLY_VAR_MAX    Maximum of Civilian input tabulation fields
/*                   being utilized
/* SUPPLY_VAR_MIN    Minimum of Civilian input tabulation fields
/*                   being utilized
/* SUPPLY_VAR_RNG    Range of Civilian input tabulation fields being
/*                   utilized
/* SUPPLY_VAR_SIZ    Size of Civilian input tabulation fields being
/*                   utilized
/* DEMAND_ALLOCATION  Total allocated to particular military job
/* DEMAND_TOTAL      Total demand for particular military job
/* X_DEMAND          Identifies military job associated with
/*                   Crosswalk cell

```



```

DECLARE
    INPUT_STRING                CHAR(256)VARYING;

DECLARE
    (VARCNT, VAR)               FIXED BIN(7),
    SUPPLY_KEY                   FIXED BIN(31);

DECLARE
    (DEMAND_ID_LOC, DEMAND_ID_SIZ,
     DEMAND_CNT_LOC, DEMAND_CNT_SIZ,
     CROSS_DEMAND_ID_LOC,
     SUPPLY_CNT_LOC, SUPPLY_CNT_SIZ )    FIXED BIN(15);

DECLARE
    (WRK1, ITERATION, ITERATION_MAX, CHANGING)
                                         FIXED BIN(31);

    GET FILE(TRANPARM) LIST(ITERATION_MAX);
    GET FILE(TRANPARM) LIST(DEMAND_ID_LOC, DEMAND_ID_SIZ);
    GET FILE(TRANPARM) LIST(CROSS_DEMAND_ID_LOC);
    GET FILE(TRANPARM) LIST(DEMAND_CNT_LOC, DEMAND_CNT_SIZ);
    GET FILE(TRANPARM) LIST(SUPPLY_CNT_LOC, SUPPLY_CNT_SIZ);
    GET FILE(TRANPARM) LIST (VARCNT);

BEGIN /*B*/;

    DECLARE
        (CROSS_VAR_LOC, CROSS_VAR_SIZ)
        (1:VARCNT)                  FIXED BIN(15);

    DECLARE
        (SUPPLY_VAR_LOC, SUPPLY_VAR_SIZ,
         SUPPLY_VAR_MIN, SUPPLY_VAR_MAX,
         SUPPLY_VAR_RNG
        (1:VARCNT)                  FIXED BIN(15);

    DECLARE
        ID                          CHAR(DEMAND_ID_SIZ);

        DO VAR=1 TO VARCNT;

            GET FILE(TRANPARM) LIST
            (SUPPLY_VAR_MIN(VAR), SUPPLY_VAR_MAX(VAR),
             SUPPLY_VAR_LOC(VAR), SUPPLY_VAR_SIZ(VAR));
            GET FILE(TRANPARM) LIST(CROSS_VAR_LOC(VAR), CROSS_VAR_SIZ(VAR));
            SUPPLY_VAR_RNG(VAR)=SUPPLY_VAR_MAX(VAR)-SUPPLY_VAR_MIN(VAR)+1;
        END;

BEGIN /*A*/;

```

DECLARE

```
1 CUR_SUPPLY_STRUCTURE BASED(CUR_SUPPLY),
2     SUPPLY_INDEX                FIXED BIN(31),
2     SUPPLY_TOT                  FLOAT BIN(24),
2     SUPPLY_DENOM                FLOAT BIN(24),
2     PREV_SUPPLY                 POINTER,
2     NEXT_SUPPLY                 POINTER,

1 PREV_SUPPLY_STRUCTURE BASED(PREV_SUPPLY),
2     PREV_SUPPLY_INDEX           FIXED BIN(31),
2     PREV_SUPPLY_TOT             FLOAT BIN(24),
2     PREV_SUPPLY_DENOM          FLOAT BIN(24),
2     PREV_PREV_SUPPLY            POINTER,
2     PREV_NEXT_SUPPLY            POINTER,

1 NEXT_SUPPLY_STRUCTURE BASED(NEXT_SUPPLY),
2     NEXT_SUPPLY_INDEX           FIXED BIN(31),
2     NEXT_SUPPLY_TOT             FLOAT BIN(24),
2     NEXT_SUPPLY_DENOM          FLOAT BIN(24),
2     NEXT_PREV_SUPPLY            POINTER,
2     NEXT_NEXT_SUPPLY            POINTER,

1 STOR_SUPPLY_STRUCTURE BASED(STOR_SUPPLY),
2     STOR_SUPPLY_INDEX           FIXED BIN(31),
2     STOR_SUPPLY_TOT             FLOAT BIN(24),
2     STOR_SUPPLY_DENOM          FLOAT BIN(24),
2     STOR_PREV_SUPPLY            POINTER,
2     STOR_NEXT_SUPPLY            POINTER,

(CUR_SUPPLY, STOR_SUPPLY)        POINTER;
```

DECLARE

```
1 CUR_DEMAND_STRUCTURE BASED(CUR_DEMAND),
2     DEMAND_ID                   CHAR(DEMAND_ID_SIZ),
2     DEMAND_TOT                  FLOAT BIN(24),
2     DEMAND_ALLOCATION            FLOAT BIN(24),
2     DEMAND_SUPPLY_RATIO         FLOAT DEC(3),
2     PREV_DEMAND                 POINTER,
2     NEXT_DEMAND                 POINTER,

1 PREV_DEMAND_STRUCTURE BASED(PREV_DEMAND),
2     PREV_DEMAND_ID              CHAR(DEMAND_ID_SIZ),
2     PREV_DEMAND_TOT             FLOAT BIN(24),
2     PREV_DEMAND_ALLOCATION        FLOAT BIN(24),
2     PREV_DEMAND_SUPPLY_RATIO     FLOAT DEC(3),
2     PREV_PREV_DEMAND            POINTER,
2     PREV_NEXT_DEMAND            POINTER,

1 NEXT_DEMAND_STRUCTURE BASED(NEXT_DEMAND),
```

```

2      NEXT_DEMAND_ID          CHAR(DEMAND_ID_SIZ),
2      NEXT_DEMAND_TOT         FLOAT BIN(24),
2      NEXT_DEMAND_ALLOCATION   FLOAT BIN(24),
2      NEXT_DEMAND_SUPPLY_RATIO FLOAT DEC(3),
2      NEXT_PREV_DEMAND        POINTER,
2      NEXT_NEXT_DEMAND        POINTER,

1  STOR_DEMAND_STRUCTURE BASED(STOR_DEMAND),
2      STOR_DEMAND_ID          CHAR(DEMAND_ID_SIZ),
2      STOR_DEMAND_TOT         FLOAT BIN(24),
2      STOR_DEMAND_ALLOCATION   FLOAT BIN(24),
2      STOR_DEMAND_SUPPLY_RATIO FLOAT DEC(3),
2      STOR_PREV_DEMAND        POINTER,
2      STOR_NEXT_DEMAND        POINTER,

1  UPDATE_DEMAND_STRUCTURE BASED(UPDATE_DEMAND),
2      UPDATE_DEMAND_ID        CHAR(DEMAND_ID_SIZ),
2      UPDATE_DEMAND_TOT       FLOAT BIN(24),
2      UPDATE_DEMAND_ALLOCATION FLOAT BIN(24),
2      UPDATE_DEMAND_SUPPLY_RATIO FLOAT DEC(3),
2      UPDATE_PREV_DEMAND      POINTER,
2      UPDATE_NEXT_DEMAND      POINTER,

(CUR_DEMAND, STOR_DEMAND,
 UPDATE_DEMAND )          POINTER;

DECLARE
1  CUR_X_STRUCTURE BASED(CUR_X),
2      X_FRACTION          FLOAT BIN(24),
2      X_SUPPLY            POINTER,
2      X_DEMAND            POINTER,
2      PREV_X              POINTER,
2      NEXT_X              POINTER,

1  PREV_X_STRUCTURE BASED(PREV_X),
2      PREV_X_FRACTION     FLOAT BIN(24),
2      PREV_X_SUPPLY       POINTER,
2      PREV_X_DEMAND       POINTER,
2      PREV_PREV_X         POINTER,
2      PREV_NEXT_X         POINTER,

1  NEXT_X_STRUCTURE BASED(NEXT_X),
2      NEXT_X_FRACTION     FLOAT BIN(24),
2      NEXT_X_SUPPLY       POINTER,
2      NEXT_X_DEMAND       POINTER,
2      NEXT_PREV_X         POINTER,
2      NEXT_NEXT_X         POINTER,

1  STOR_X_STRUCTURE BASED(STOR_X),
2      STOR_X_FRACTION     FLOAT BIN(24),

```

```

2      STOR_X_SUPPLY          POINTER,
2      STOR_X_DEMAND          POINTER,
2      STOR_PREV_X            POINTER,
2      STOR_NEXT_X            POINTER,

(CUR_X, STOR_X)              POINTER;

LOAD_CROSSWALK_INFO;;
OPEN FILE(XFILE) INPUT SEQUENTIAL;
MORE_XFILE='1'B;
ON ENDFILE(XFILE) MORE_XFILE='0'B;
READ FILE(XFILE) INTO (INPUT_STRING);
CUR_X=NULL();CUR_SUPPLY=NULL();CUR_DEMAND=NULL();
STOR_X=NULL();STOR_SUPPLY=NULL();STOR_DEMAND=NULL();

DO WHILE(MORE_XFILE);
  SUPPLY_KEY=1;

  DO VAR=1 TO VARGNT;
    WRK1=
      FLOAT(
        SUBSTR(INPUT_STRING,CROSS_VAR_LOC(VAR),CROSS_VAR_SIZ(VAR)),7);
    IF (WRK1 < SUPPLY_VAR_MIN(VAR)
        | WRK1 > SUPPLY_VAR_MAX(VAR))
      THEN SUPPLY_KEY=0;
    ELSE SUPPLY_KEY=SUPPLY_KEY*(WRK1-SUPPLY_VAR_MIN(VAR)+1);
  END;
  IF SUPPLY_KEY > 0
  THEN BEGIN /*C*/;
    ALLOCATE CUR_X_STRUCTURE;
    PREV_X=STOR_X;
    NEXT_X=NULL();
    STOR_X=CUR_X;
    IF PREV_X ^= NULL() THEN PREV_NEXT_X=CUR_X;
    X_FRACTION=1;

  SUPPLY_SEARCH;;
  IF CUR_SUPPLY=NULL()
  THEN DO;
    ALLOCATE CUR_SUPPLY_STRUCTURE;
    PREV_SUPPLY=NULL();
    NEXT_SUPPLY=NULL();
    SUPPLY_INDEX=SUPPLY_KEY;
    SUPPLY_TOT=0;
    SUPPLY_DENOM=1;
    X_SUPPLY=CUR_SUPPLY;
  END;

  ELSE DO;

```

```

DO WHILE(PREV_SUPPLY ^=NULL() & SUPPLY_INDEX > SUPPLY_KEY);
    CUR_SUPPLY=PREV_SUPPLY;
END;

DO WHILE(NEXT_SUPPLY ^=NULL() & SUPPLY_INDEX < SUPPLY_KEY);
    CUR_SUPPLY=NEXT_SUPPLY;
END;

IF SUPPLY_INDEX ^=SUPPLY_KEY
THEN DO;

    IF SUPPLY_INDEX > SUPPLY_KEY
    THEN DO;
        STOR_SUPPLY=PREV_SUPPLY;
        ALLOCATE PREV_SUPPLY_STRUCTURE;
        PREV_SUPPLY_INDEX=SUPPLY_KEY;
        PREV_PREV_SUPPLY=STOR_SUPPLY;
        PREV_NEXT_SUPPLY=CUR_SUPPLY;
        PREV_SUPPLY_TOT=0;
        PREV_SUPPLY_DENOM=1;
        X_SUPPLY=PREV_SUPPLY;
        IF STOR_SUPPLY ^=NULL()
        THEN STOR_NEXT_SUPPLY=PREV_SUPPLY;
    END;

    ELSE DO;
        STOR_SUPPLY=NEXT_SUPPLY;
        ALLOCATE NEXT_SUPPLY_STRUCTURE;
        NEXT_SUPPLY_INDEX=SUPPLY_KEY;
        NEXT_NEXT_SUPPLY=STOR_SUPPLY;
        NEXT_PREV_SUPPLY=CUR_SUPPLY;
        NEXT_SUPPLY_TOT=0;
        NEXT_SUPPLY_DENOM=1;
        X_SUPPLY=NEXT_SUPPLY;
        IF STOR_SUPPLY ^=NULL()
        THEN STOR_PREV_SUPPLY=NEXT_SUPPLY;
    END;

    ELSE DO;
        X_SUPPLY=CUR_SUPPLY;
        SUPPLY_DENOM=SUPPLY_DENOM+1;
    END;
END;

DEMAND_SEARCH:;
ID=SUBSTR(INPUT_STRING,CROSS_DEMAND_ID_LOC,DEMAND_ID_SIZ);

IF CUR_DEMAND=NULL()
THEN DO;

```

```

ALLOCATE CUR_DEMAND_STRUCTURE;
PREV_DEMAND=NULL();
NEXT_DEMAND=NULL();
DEMAND_ID=ID;
DEMAND_TOT=0;
DEMAND_ALLOCATION=0;
X_DEMAND=CUR_DEMAND;
END;

ELSE DO;

DO WHILE(PREV_DEMAND ^=NULL() & DEMAND_ID > ID);
    CUR_DEMAND=PREV_DEMAND;
END;

DO WHILE(NEXT_DEMAND ^=NULL() & DEMAND_ID < ID);
    CUR_DEMAND=NEXT_DEMAND;
END;

IF DEMAND_ID ^=ID
THEN DO;

    IF DEMAND_ID > ID
    THEN DO;
        STOR_DEMAND=PREV_DEMAND;
        ALLOCATE PREV_DEMAND_STRUCTURE;
        PREV_DEMAND_ID=ID;
        PREV_PREV_DEMAND=STOR_DEMAND;
        PREV_NEXT_DEMAND=CUR_DEMAND;
        PREV_DEMAND_TOT=0;
        PREV_DEMAND_ALLOCATION=0;
        X_DEMAND=PREV_DEMAND;
        IF STOR_DEMAND ^=NULL()
        THEN STOR_NEXT_DEMAND=PREV_DEMAND;
    END;

    ELSE DO;
        STOR_DEMAND=NEXT_DEMAND;
        ALLOCATE NEXT_DEMAND_STRUCTURE;
        NEXT_DEMAND_ID=ID;
        NEXT_NEXT_DEMAND=STOR_DEMAND;
        NEXT_PREV_DEMAND=CUR_DEMAND;
        NEXT_DEMAND_TOT=0;
        NEXT_DEMAND_ALLOCATION=0;
        X_DEMAND=NEXT_DEMAND;
        IF STOR_DEMAND ^=NULL()
        THEN STOR_PREV_DEMAND=NEXT_DEMAND;
    END;
END;
END;

```

```

        ELSE X_DEMAND=CUR_DEMAND;

    END;
    END /*C*/;

    READ FILE(XFILE) INTO (INPUT_STRING);
    END;

    CLOSE FILE(XFILE);

LOAD_DEMAND_INFO;;
OPEN FILE(DEMFILE) INPUT SEQUENTIAL;
MORE_DEMFILE='1'B;
ON ENDFILE(DEMFILE) MORE_DEMFILE='0'B;
READ FILE(DEMFILE) INTO (INPUT_STRING);

DO WHILE(MORE_DEMFILE);
    ID=SUBSTR(INPUT_STRING,DEMAND_ID_LOC,DEMAND_ID_SIZ);

    DO WHILE(DEMAND_ID > ID & PREV_DEMAND ^= NULL());
        CUR_DEMAND=PREV_DEMAND;
    END;

    DO WHILE(DEMAND_ID < ID & NEXT_DEMAND ^= NULL());
        CUR_DEMAND=NEXT_DEMAND;
    END;

    REAL1=
        FLOAT(SUBSTR(INPUT_STRING,DEMAND_CNT_LOC,DEMAND_CNT_SIZ),7);

    IF DEMAND_ID=ID
    THEN DEMAND_TOT=DEMAND_TOT+REAL1;
    ELSE DO;

        IF DEMAND_ID > ID
        THEN DO;
            STOR_DEMAND=PREV_DEMAND;
            ALLOCATE PREV_DEMAND_STRUCTURE;
            PREV_DEMAND_ID=ID;
            PREV_PREV_DEMAND=STOR_DEMAND;
            PREV_NEXT_DEMAND=CUR_DEMAND;
            PREV_DEMAND_TOT=REAL1;
            PREV_DEMAND_ALLOCATION=0;
            IF STOR_DEMAND ^=NULL()
            THEN STOR_NEXT_DEMAND=PREV_DEMAND;
        END;

    ELSE DO;
        STOR_DEMAND=NEXT_DEMAND;
        ALLOCATE NEXT_DEMAND_STRUCTURE;

```

```

        NEXT_DEMAND_ID=ID;
        NEXT_NEXT_DEMAND=STOR_DEMAND;
        NEXT_PREV_DEMAND=CUR_DEMAND;
        NEXT_DEMAND_TOT=REAL1;
        NEXT_DEMAND_ALLOCATION=0;
        IF STOR_DEMAND ^=NULL()
        THEN STOR_PREV_DEMAND=NEXT_DEMAND;
    END;

END;

    READ FILE(DEMFILE) INTO (INPUT_STRING);
END;

CLOSE FILE(DEMFILE);

LOAD_SUPPLY_INFO;;
OPEN FILE(SUPFILE) INPUT SEQUENTIAL;
MORE_SUPFILE='1'B;
ON ENDFILE(SUPFILE) MORE_SUPFILE='0'B;
READ FILE(SUPFILE) INTO (INPUT_STRING);

DO WHILE(MORE_SUPFILE);
    SUPPLY_KEY=1;

    DO VAR=1 TO VARCNT;
        WRK1=
            FLOAT(
                SUBSTR(INPUT_STRING,SUPPLY_VAR_LOC(VAR),SUPPLY_VAR_SIZ(VAR)),7);
        IF (WRK1 < SUPPLY_VAR_MIN(VAR)
            | WRK1 > SUPPLY_VAR_MAX(VAR))
        THEN SUPPLY_KEY=0;
        ELSE SUPPLY_KEY=SUPPLY_KEY*(WRK1-SUPPLY_VAR_MIN(VAR)+1);
    END;
    IF SUPPLY_KEY > 0
    THEN DO;

        DO WHILE(SUPPLY_INDEX > SUPPLY_KEY & PREV_SUPPLY ^= NULL());
            CUR_SUPPLY=PREV_SUPPLY;
        END;

        DO WHILE(SUPPLY_INDEX < SUPPLY_KEY & NEXT_SUPPLY ^= NULL());
            CUR_SUPPLY=NEXT_SUPPLY;
        END;
        IF SUPPLY_INDEX=SUPPLY_KEY
        THEN DO;
            REAL1=
                FLOAT(SUBSTR(INPUT_STRING,SUPPLY_CNT_LOC,SUPPLY_CNT_SIZ),7);
            SUPPLY_TOT=SUPPLY_TOT+REAL1;
        END;
    
```

```

        END;

        READ FILE(SUPFILE) INTO (INPUT_STRING);
    END;

    CLOSE FILE(SUPFILE);

INITIALIZE_PROCESS:;
    DO WHILE(PREV_X ^= NULL());
        CUR_X=PREV_X;
    END;

    DO WHILE(PREV_SUPPLY ^= NULL());
        CUR_SUPPLY=PREV_SUPPLY;
    END;

    DO WHILE(PREV_DEMAND ^= NULL());
        CUR_DEMAND=PREV_DEMAND;
    END;

    ITERATION=0;
    CHANGING=1;

MAIN_ITERATION:;
    DO WHILE(ITERATION < ITERATION_MAX & (CHANGING > 0));
        ITERATION=ITERATION+1;
        CHANGING=0;
        STOR_X=CUR_X;

        DO WHILE(STOR_X ^= NULL());
            STOR_SUPPLY=STOR_X_SUPPLY;

            IF STOR_SUPPLY_DENOM > 0
            THEN STOR_X_FRACTION=STOR_X_FRACTION/STOR_SUPPLY_DENOM;

            STOR_DEMAND=STOR_X_DEMAND;
            STOR_DEMAND_ALLOCATION=
                STOR_DEMAND_ALLOCATION+(STOR_X_FRACTION*STOR_SUPPLY_TOT);
            STOR_X=STOR_NEXT_X;
        END;

        STOR_DEMAND=CUR_DEMAND;

        DO WHILE(STOR_DEMAND ^= NULL());

            IF STOR_DEMAND_ALLOCATION > 0
            THEN DO;
                DEC1=STOR_DEMAND_TOT/STOR_DEMAND_ALLOCATION;

                IF ITERATION > 1

```

```

    THEN DO:
      REAL1=
        ABS((DEC1-STOR_DEMAND_SUPPLY_RATIO)/STOR_DEMAND_SUPPLY_RATIO);

      IF REAL1 > .001
      THEN DO:
        CHANGING=CHANGING+1;
      END;
    ELSE CHANGING=CHANGING+1;

    STOR_DEMAND_SUPPLY_RATIO=DEC1;
  END;

  STOR_DEMAND=STOR_NEXT_DEMAND;
END;

STOR_SUPPLY=CUR_SUPPLY;

DO WHILE(STOR_SUPPLY ^= NULL());
  STOR_SUPPLY_DENOM=0;
  STOR_SUPPLY=STOR_NEXT_SUPPLY;
END;

STOR_X=CUR_X;

DO WHILE(STOR_X ^= NULL());
  STOR_DEMAND=STOR_X_DEMAND;
  STOR_X_FRACTION=STOR_X_FRACTION*STOR_DEMAND_SUPPLY_RATIO;
  STOR_SUPPLY=STOR_X_SUPPLY;
  STOR_SUPPLY_DENOM=STOR_SUPPLY_DENOM+STOR_X_FRACTION;
  STOR_X=STOR_NEXT_X;
END;

STOR_DEMAND=CUR_DEMAND;

DO WHILE(STOR_DEMAND ^= NULL());
  STOR_DEMAND_ALLOCATION=0;
  STOR_DEMAND=STOR_NEXT_DEMAND;
END;

  PUT SKIP LIST('iteration',ITERATION,CHANGING,'allocations changed');

END;

SORT_ON_RATIOS::
  STOR_DEMAND=NEXT_DEMAND;

  DO WHILE(STOR_DEMAND ^= NULL());
    UPDATE_DEMAND=STOR_DEMAND;

```

```

STOR_DEMAND=STOR_NEXT_DEMAND;
CUR_DEMAND=UPDATE_PREV_DEMAND;

DO WHILE((PREV_DEMAND ^= NULL)
          &(DEMAND_SUPPLY_RATIO > UPDATE_DEMAND_SUPPLY_RATIO));
    CUR_DEMAND=PREV_DEMAND;
END;

IF DEMAND_SUPPLY_RATIO > UPDATE_DEMAND_SUPPLY_RATIO
THEN DO;
    PREV_DEMAND=UPDATE_DEMAND;
    UPDATE_DEMAND=PREV_PREV_DEMAND;
    UPDATE_NEXT_DEMAND=STOR_DEMAND;
    PREV_PREV_DEMAND=NULL();
    PREV_NEXT_DEMAND=CUR_DEMAND;

    IF STOR_DEMAND ^= NULL()
    THEN STOR_PREV_DEMAND=UPDATE_DEMAND;

END;

ELSE DO;

    IF CUR_DEMAND ^= UPDATE_PREV_DEMAND
    THEN DO;

        IF STOR_DEMAND ^=NULL
        THEN STOR_PREV_DEMAND=UPDATE_PREV_DEMAND;

        NEXT_PREV_DEMAND=UPDATE_DEMAND;
        UPDATE_NEXT_DEMAND=NEXT_DEMAND;
        NEXT_DEMAND=UPDATE_DEMAND;
        UPDATE_DEMAND=UPDATE_PREV_DEMAND;
        NEXT_PREV_DEMAND=CUR_DEMAND;
        UPDATE_NEXT_DEMAND=STOR_DEMAND;
    END;
END;
END;

CUR_DEMAND=UPDATE_DEMAND;

REPORT_RATIOS;;
OPEN FILE(REPFILE) STREAM OUTPUT;

DO WHILE(CUR_DEMAND ^= NULL());
    IF DEMAND_SUPPLY_RATIO > 0
    THEN PUT SKIP FILE(REPFILE)
        LIST(1/DEMAND_SUPPLY_RATIO,DEMAND_TOT,DEMAND_ID);
    ELSE PUT SKIP FILE(REPFILE)
        LIST(DEMAND_SUPPLY_RATIO,DEMAND_TOT,DEMAND_ID);

```

```
        CUR_DEMAND=PREV_DEMAND;  
    END;  
  
    CLOSE FILE(REPFILE);  
END /*A*/;  
END /*B*/;  
END ALLOCMAIN;
```

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